

Mind Maps in Gyn & Obst



By

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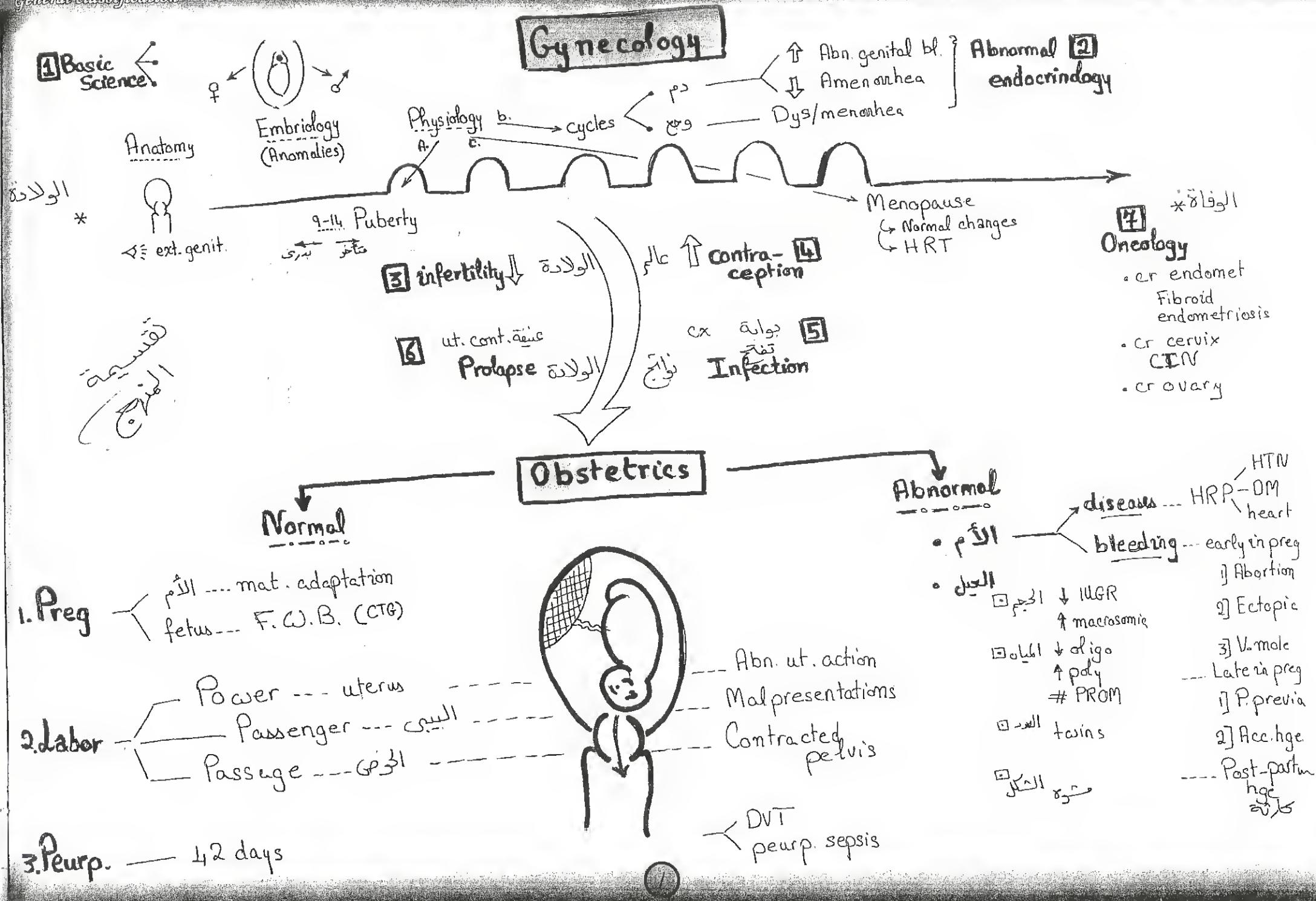
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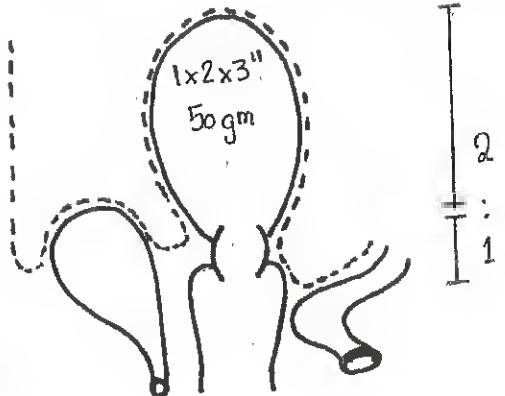
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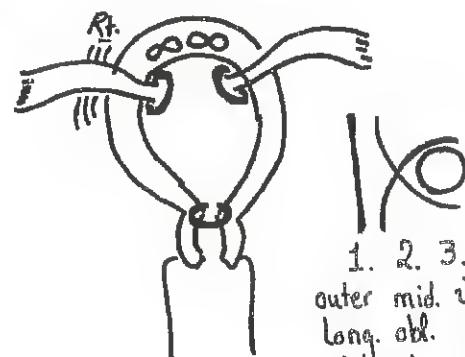


Body

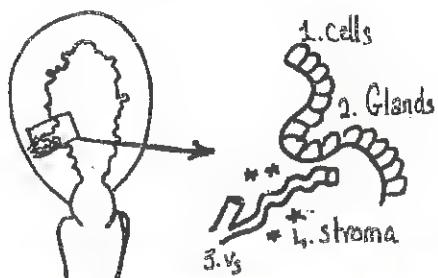
1 Perit



2 Muscle

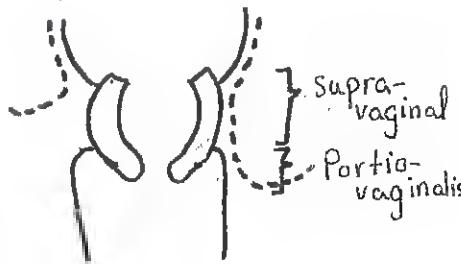


3 Epith.



Cervix

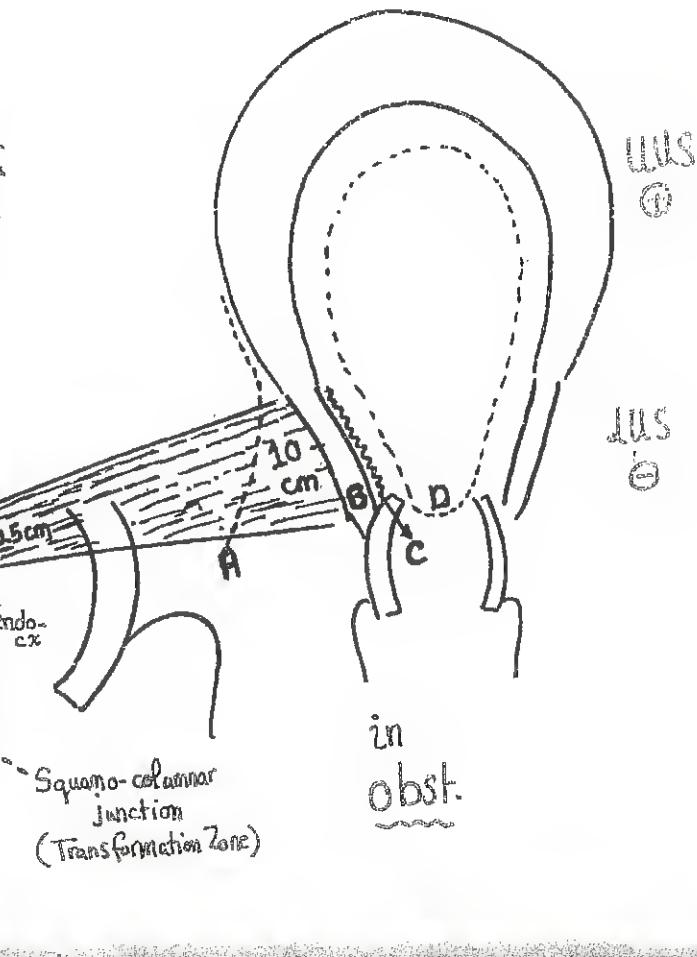
OS int. & ext.
parts supra vag. & portio vag.
junct. Hist. int. os
Sq. col junc.

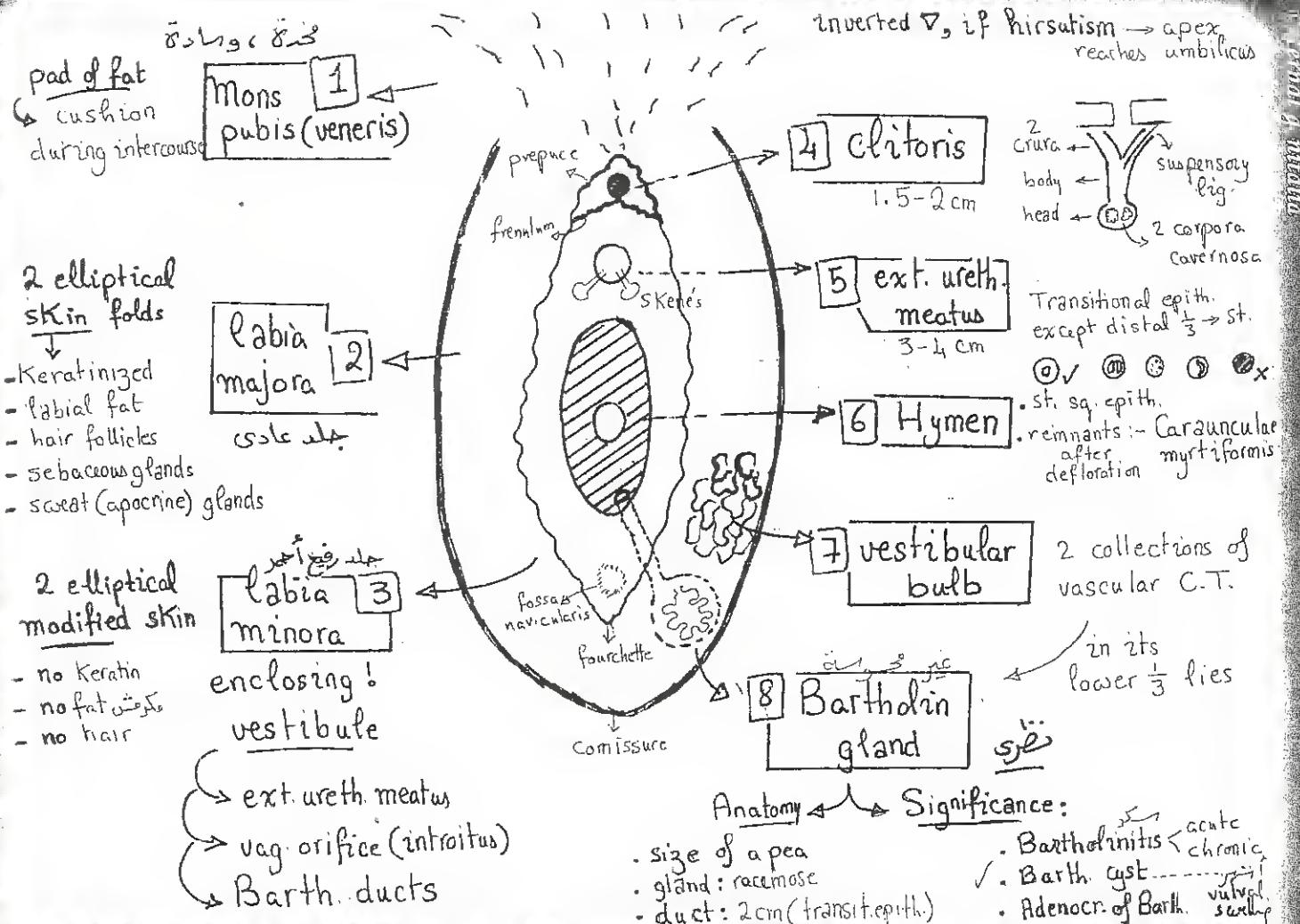


Isthmus

- A. perit → loose
- B. ms → 2 weak layers
- C. decidua → weak
- D. Amniotic → loose sac

→ int. os 3-4 mm
mainly fibrous
can withstand whole
must be 1st at Labour
tubal ostia
cx → int. os
prevents menst. regurgit.
strengthens cx





Anatomy \rightarrow Significance:

- size of a pea
- gland: racemose
- duct: 2cm (transit. epith.)
- Bartholinitis $\begin{cases} \text{acute} \\ \text{chronic} \end{cases}$
- Barth. cyst $\begin{cases} \text{vulva} \\ \text{vulval} \end{cases}$
- Adenocr. of Barth. $\begin{cases} \text{scaly} \\ \text{scaly} \end{cases}$

Vulva

Bl. supply $\begin{cases} \text{Internal pudendal a. } \checkmark \\ \pm \text{ sup. ext. pud. (femoral)} \\ \quad \text{deep} \end{cases}$

Nerve supply $\begin{cases} \text{Pudendal nerve } \checkmark \\ \pm \text{ - perineal br. of lat. cut. n.} \\ \quad \text{post. of thigh} \\ \quad \text{ilio- inguinal} \\ \quad \text{hypogastric} \\ \quad \text{genital br. of genito-} \\ \quad \text{femoral n.} \end{cases}$

Lymphatics = groin LNF

Vagina

Bl. supply (very rich)

- uterine $\begin{cases} \text{descending ex-vaginal} \\ \text{circular a. of 1 cx} \\ \rightarrow \text{ant. & post. azygous} \end{cases}$
- I I A \rightarrow middle rectal, vaginal
- Int. pud. \rightarrow inferior rectal

Nerve supply upper part lower $\frac{1}{4}$ (insensitive) (pudendal)

Lymphatics upper part lower $\frac{1}{4}$ (with cx) (with vulva)

Female genital mutilation

Def. All procedures that involve partial / total removal of ext. genit. for cultural non-therapeutic reasons

- It is still practiced in Egypt, Sudan
 - tradition?!
 - african?!
 - religious?!
- It is totally condemned by! WHO except
 - cosmetic
 - dyspareunia d.t.
 - hypertrophy
 - Nymphomania

types

- I \rightarrow prepuce or 1 whole clitoris
- II \rightarrow + labia minora
- III \rightarrow all 1 ext. genit. + narrowing of introitus } Sudanese
- IV \rightarrow unclassified e.g. tattoo, piercing

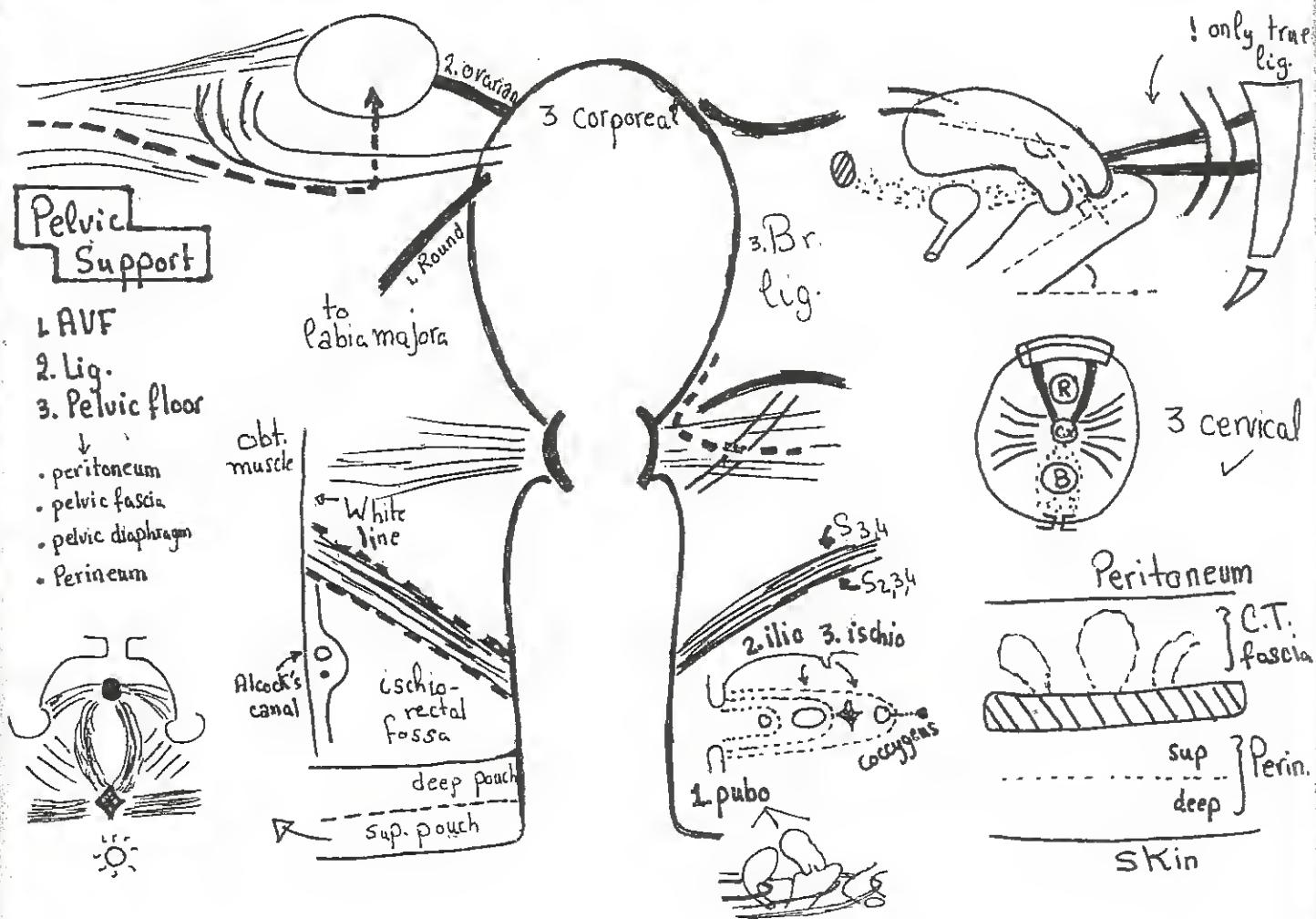
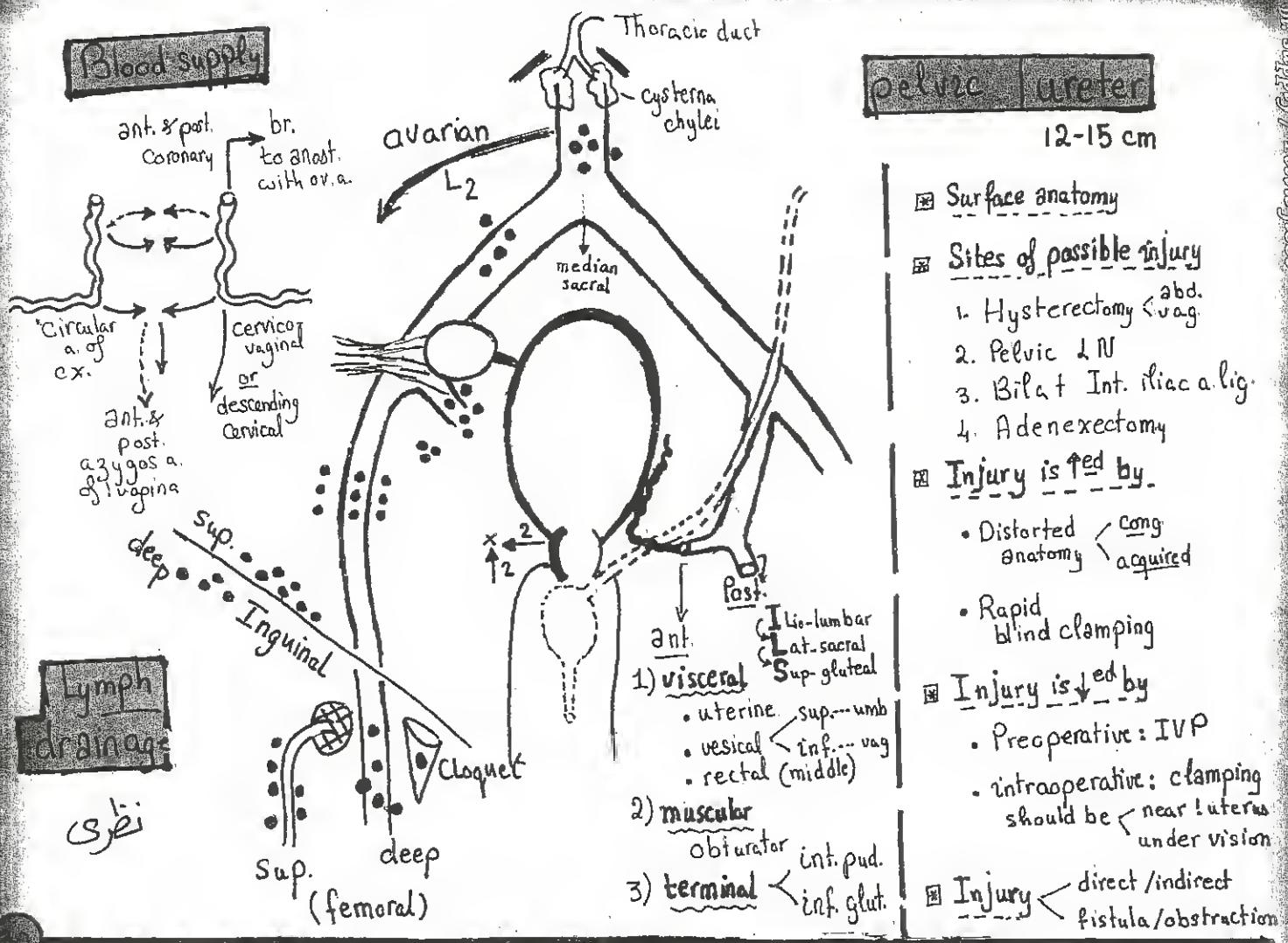
Comp.

Immediate

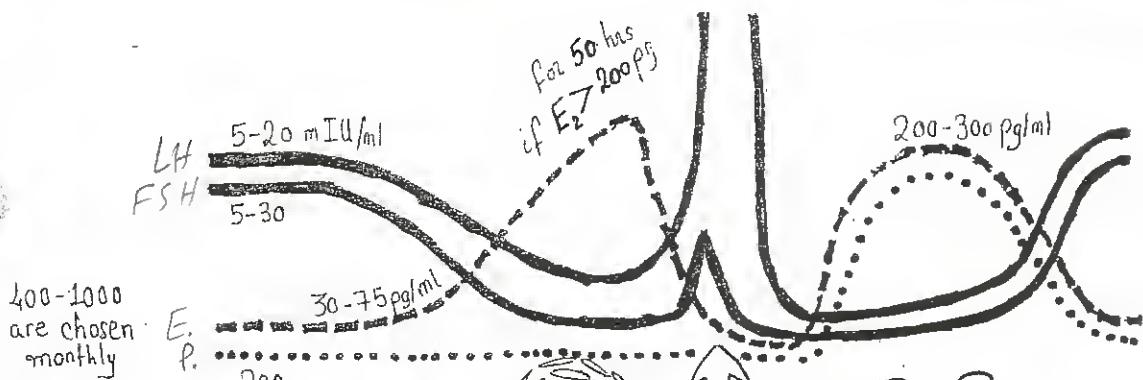
- severe pain
- hge, inf.
- injury (urethra)

Later on

- Psychological
- Retention dermoid
- obst. labor (fibrosis)



Horm.



Ovary

oocytes arrested in prophase of 1st meiosis

2 cell theory: 1 dominant follicle

2/3 Zona pellucida + liquor folliculi

Single layer of granulosa + liquor folliculi

gran. layer appears

excess growth of over.

↓ escapes atresia d.t. fed FSH R

↓ resumption of 1st meiosis

↓ oocyte polarb.

ovulation

④ LH surge
④ a small FSH surge

④ LH → androgens

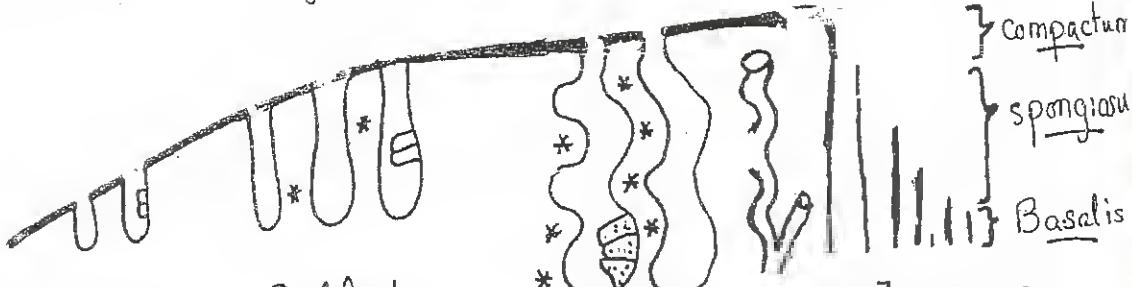
④ mech. of ovum extrusion

④ surge is short lived

■ Proliferation
■ Vascularization ✓
■ Luteinization
1. Gr → Lutein
2. theca → para-th
if
if no preg. +ve preg.
↓
regression CL of preg.
(14 days) (12 wks)

Uterus

1. Cells
2. Glands
3. Stroma
4. vessels



1] Regeneration 2] Proliferative

1-2 days
1-2 mm

9-10 days
3-4 mm

wetting ----- excessive.
+ve Fern ----- clear watery.
+ve SpinBark ----- stretchable.

- 1) Superficial cells
- 2) acidophilic cytoplasm
- 3) Dark pyknotic nucleus



3] Secretory.

11 day
7-8 mm

- Scanty
- cellular
- viscid

- 1) intermediate
- 2) Basophilic
- 3) Clear vesicular

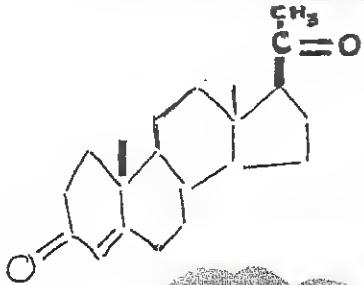
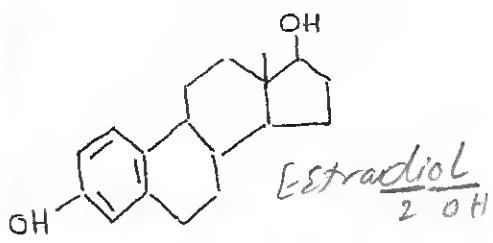
4] menses

3-5 wks
3-5 days
50-80 cc

Prog. withdrawal → ↓ edema
→ shrink of end. → Coiling of vessels → ischemia → break lysosomes → PGF₂α
→ more ischemia (4-24 hrs)
→ shedding of str. compact. spong.

Cx

W.C.G.



Estrogen 18

A] Natural

- Source: Glands, P. conversion from androgen
- E₂ (Estradiol)
- E₁ (metabolite of E₂)
- E₃ (pregnancy) Estradiol
- E₄ (fetal) Egetrol

Both are

- Bound (eg. SHBG)
- free level (1%)
- metab. in liver (prog.... pregnandiol)

B] Semi-synthetic

- Ethynodiol diacetate

- Mestranol methyl Ethynodiol diacetate

- Ethinodiol diacetate

C] Synthetic

- Stilbestrol

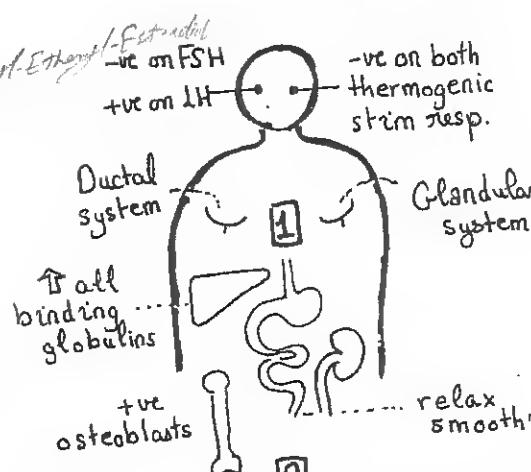
- D.E.S.

- vag. adenosis

- pat. int. os

- T-shaped ut

- tubal anomalies



- anabolic Ptn

- LDL ↓

- HDL ↑

- cholesterol ... lipid

- lipoproteins ... coag.

- +ve Spinae.

- +ve Fern

- fluidity sec. + Goodell

- acidic → glycogen + thick

- + Chadwick

- Jacque Meir

2 metab.

- Proliferation + ↑ Oxyt. R.

- Secretory endomet.

- ↓ sensitivity to oxyt. R. ... relaxant.

- ↓ thickness & acidity

- intermediate basophilic cells

1] To improve vulva & vagina

- Prepub., post menop. V. vaginitis
- Vulval dystrophy
- Trophic ulcer in prolapse

2] ERT → T.F.S.

3] Bleeding → Acute

4] Infertility → with clomid

5] Contraception → emergency

Uses

both :-

- C.O.C.

- H.R.T.

- D.U.B.

- P.M.T.

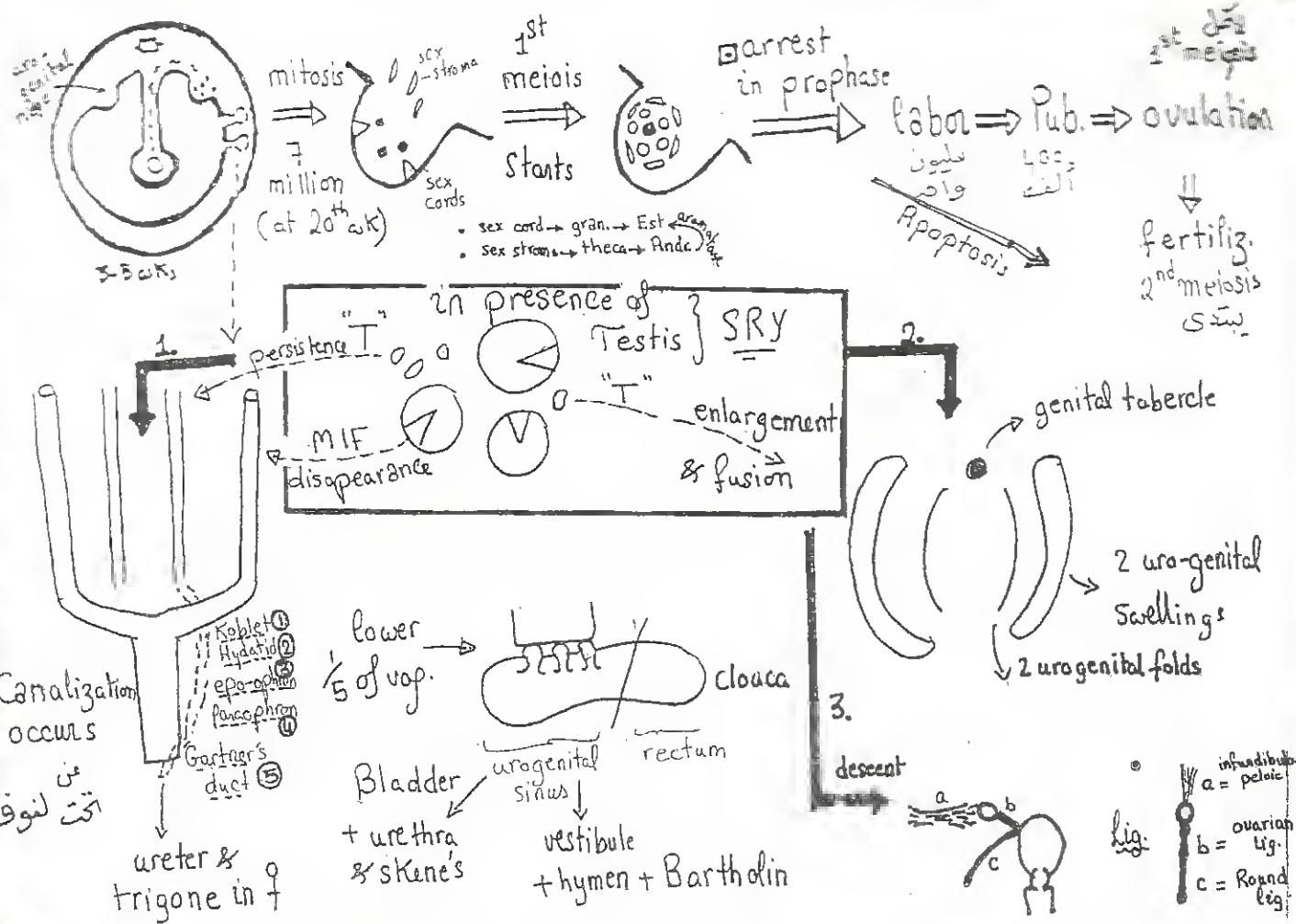
1] Obst.

- Abortion
- C.I. threatened
- habit. ab.

- Before surgery during preg.

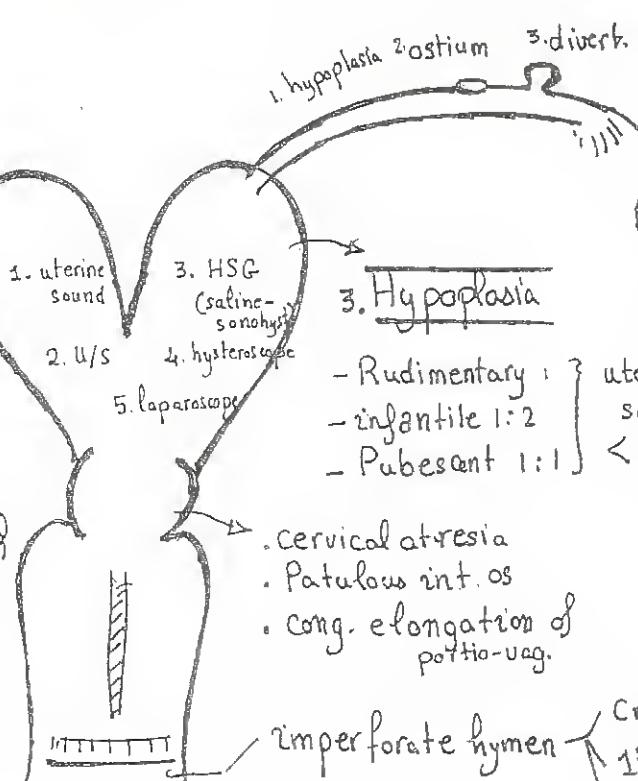
2] Gyna

عوارض
عويضات عن
Hyper-est.



Anomalies

- Mullerian agenesis
- Fusion defects
 - uterus di-didymus
 - Bicornis bicolle
 - Bicornis unicollis
 - septate & sub-septate
 - Arcuate (cordiformis)
 - Unicornuate
 - Rudimentary horn



gyna obst

- asympt. habit. ab.
- sp. dysm. early ectopic
- in encephalo. late malpresent.
- labor ob. obstructed.
- labor p. accreta

Cryptomenorrhea
1st presentation: retention of menses
treatment: emergency cruciate incision

Mullerian agenesis

- Frank method
- surgery
 - vagina: McIndoe, Williams
 - abd. colon vaginoplasty
 - laparoscopy... Vachelli

Menopause

Inv.

Menop.

Physical changes

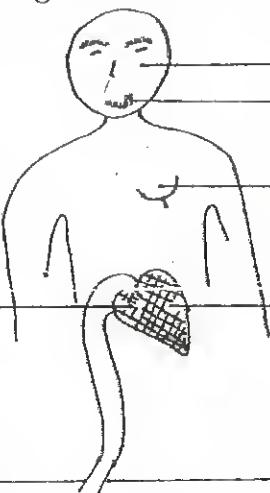
symptoms

effect

HRT

Drugs

- Permanent cessation
- occurs gradually
- diagnosed retro-spective



- triglycerides
- cholesterol
- LDL (↑)
- HDL (↓)

Lipid profile

(to confirm)
ml/dl

- ✓ FSH > 25-40
- * E₂ < 20 pg/ml
- * vag. cytology

DEXA

> 2.5 SD

- T score (adult)
- Z score (old age)

Ex... U/S
ib... urine
collagen



- sudden sense of heat
- d.t. hypoth. instability
- from twice/d... every 15 m
- disappear spont. (1-2 yrs)

Hot flushes

Hirsutism

↑ LH...↑ androgen
↓ E₂...↑ androgen
(↓ SHBG)

CVS

- ↑ LDL, ↓ HDL
- ↑ cholest. → atherosclerosis
- Risk f.: +ve FH, obese, DM

Hormones

- ↓ ovarian E & P
- Test... same levels → E₁ ✓
- ↑ FSH (mainly) & LH

Osteoporosis

- progressive bone resorption
- ↓ BMD: l. vert., femur neck, distal radius
- Risk f:
 - +ve FH, cigarette, alcohol
 - sedentary life, liver/kidney
 - drugs: heparin, thyroid, steroids

Genital

& support → prolapse, SUI
& urinary → recurrent infections

- ! annoying
sympt. (10%).

vaso-motor symptoms

skin

disfigure- ment

CHD

Hypert.

Psych.

no proven effect

- WHI study
- one million study

↓ 75% but...

↑ slightly ?!

↑ significantly

- DVT
- myocard. infarction

no proven effect

↓ 30% but...

Rh. pain

Backache

Dowager's hump

Discharge

Dyspareunia

SUI

& cystitis

Workup & start

- History
- Ex. (BP, Br., P.V.)
- inv. sugar
mamogram
lipid profile

Duration

- some... 10 yrs
- some... for life
- recently... max. 2 yrs

Mech. of action

- ↓ cholest. deposition
- ↑ HDL, ↓ LDL
- However, it
↑ clotting factors
↓ antithromb. III

• effect of parath. on osteoclast
↑ Ca abs. & loss

Indication

1. menop. synd.
2. if sympt. & but high risk
3. Routine for all f.s

Contraindication

• myoc. infarction
• DVT
• active vascul. dis.
• active liver dis.
• unexplained bleeding

HRT

Drugs

* Hormones

1 Est. only
oral: CEE 0.625-1.25 mg/d

non-oral

- estro-derm
- estragel
- Premarin
- S.C. implant
- No GIT troubles
- Higher conc. <
- No mut. effect <
- No DVT

2 E + P

- cyclic... withdrawal bl.
- continuous... amenorrhea
- JX613

* Non - Hormones

1 SERM (tamoxifen)

- +ve on... CVS & bone
- ve on... uterus & breast

2 Tibolone (clivial), weak

- estrogen... +ve ut. & br.
- progester... no need to add it
- androgen... +ve bone & libido

3 Hot flushes (agreal) or

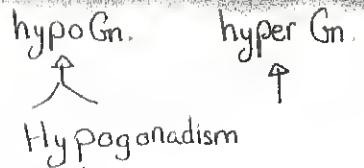
- clomidine patch
- phyto-estrogens

4 osteoporosis

- Ca, vit D +
- Biphosphonate (foscamax)
- Calcitonin (myocalcic)
- fluoride

	Hypothalamus	Pituitary	Ovary	Uterus	Himenorrhoea Path.	Phys.
Cong.	* Frohlich * Laurence Moon Biedl * Kallmann	* Levi-Lorain ↓ short, obese	* Agenesis * Dysgenesis (Turner) * Test. fem. \$	* Aplasia, hypoplasia ↓ Mullerian agenesis	1 st amen. - Constitutional - ov. dysgenesis - Mullerian agenesis - T.F.S	Cryptomen. True False - imp. hymen - vag. septum - ex. atresia Preg. & lactation <puberty menop. >
Tr.	- Fracture base of skull - Meningitis, encephalitis - Destructive tumors	.....	- oophorectomy - Mumps, T.B. - Desctructive - Secretory - Prolactin - GH - cortisol	* Asherman synd. min. mod. severe - inguinal - PTX - Amen. - habit. - PL - Infat. - adhesions - acro. -	2 nd amen.	Assessment
Infl.	.....	.....	.....	.....	History	Inv.
Neop.	.....	.....	.....	.....	Examination	B-HCG
Misc.	* Psychological - severe stress - Anorexia nervosa - Bulimia - Pseudogynecomastia * Hyperprolact. of hypoth. origin * Postpill amen.	* Empty Sella \$ 1 st (Cong) 2 nd (after surg) Galact. amen. * Simmond \$ panhypopit. * Sheehan \$ after severe hge.	Andr. ROS P.L. P.I. C.I. O.O. L.I. I.I. D.LFS E P prolif secr	Adeno Neuro F.S.H., L.H. T.S.H. A.C.T.H. M.S.H. dopamine L.H.V. * G.H. * Prolactin	Gyn short period am. followed by P.P.I. infertility hirsutism galactorrhea Thyroid Adrenal G.H. D.M.	Br. 2 nd sex. Anovulation ul. Hyperand signs of viriliz. Hyperprol. squeezed breast Tall/short thin/obese End. T.S.H. G.H. D.M.
General	* Endocriné - thyroid - adren - acromegaly	* General debilitating disease	* Drugs hormones: - steroids - androgens - C.O.C. hyperprol.	* Drugs hormones: - steroids - androgens - C.O.C. hyperprol.	Local - ambig. genit. - gross pathology - pregnant	ovary Pit. hyp. (hyperGn. hypogonad) (hypogonad)

Amenorrhea



Path.

Amenorrhea

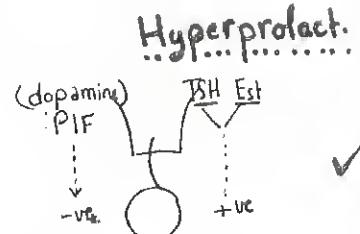
Phys.



	H.	P.	Ov.	ut.	out-flow tract obst
Cong.	Kallman \$ ~	Levi-Loria \$	Turner \$	Magenesis • TFS	imperf. hymen Tr. vag. septum Cx atresia 1 ^{ry} 2 ^{ry}
tr.	fracture base of 1 st skull	surgery • irradiation • chemoth.		→ D&C Purp. sepsis septical. T. B	Amen.
inf.	meningo en Kephal.	T.B. > mumps			Asherman \$
Neop.	crano-pharyngioma Ant. ↑ Pr.↑ (Cushing) (adenoma)	↑ E... ↑ An... Bilat. dest.			non inv. U/S inv. HSG Hysterosc.
Misc.	• Stress • Anorexia nervosa • Pseudo-cyesis	galact. amen. Empty Sella \$ Sheehan \$ severe PPhge	↑ An. POF PCO		Adhesiolysis by D&C or hyst. followed by cyclic E&P.

General causes

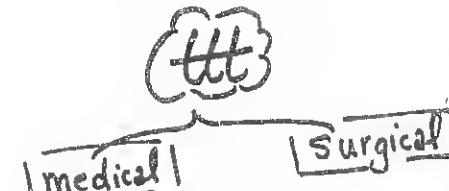
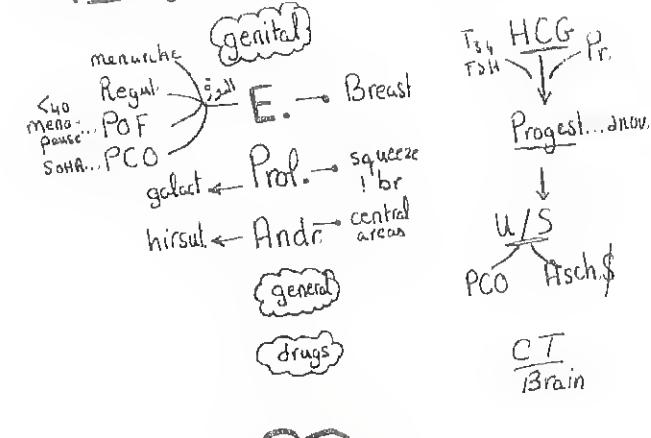
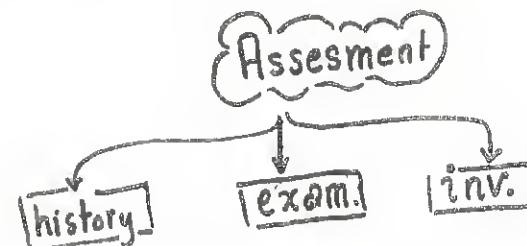
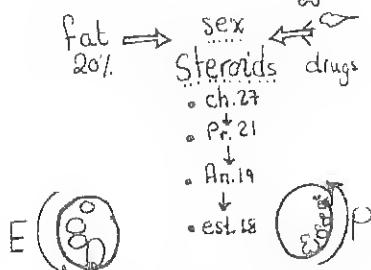
- OM, T.B.
- general debilitating dis.
- endocrine disorders
- hypoth. Cushing.
- drugs e.g. Progest. atrophy
contr. manner... Grav. hyperprol. atrophy
C.O.C. postpill amen. Danazol Synth andr.



- 1) Phys. ...
- 2) Drugs... Anti-
✓ 3) Pit. adenoma macro
4) Hypothyr. ↑ TSH
5) Hypoth. dest.



Pre-requisites
for normal
menst.



induction gov. → PCO → lap. ov. drilling
Cidophage → Hyperprol. → Surgery
Bromocriptine → Hyperand. → Laser epilation
Cabergoline (Dostinex) → Diane → Hyperthy. → Hypothy. → L-thyrox.
Androcur → cyclic E+P → Ascherman → adhesiolysis



1st Amen.

false

- = cryptomenorrhea
- = outflow tract obst



C/O

- 1st amen
- cyclic lower abd pain
- Pelvi-abd. swelling
- Acute ret. of urine

O/E

Bluish bulging memb.

ttt

surgery: cruciate incision

Turner & M. agenesis T. F. S.

Etiology

failure of backward oocyte migration

Karyot.

45x0
45x0...mosaic
46xx

Phenot.

<150 cm
web neck, shield ch.
anom...coarct.

Gonad

streak

hormone

no E₂

int. genit.

infantile

ext. genit.

infantile

2nd sex. ccc

infantile

ttt

cyclic E & P

for life

but not <18 yrs
± GH (8cm)

No oophorectomy
except if Y-chr
→ malig risk 25%.

أعصاب العصعص
أعصاب العصعص
أعصاب العصعص

absent developm
of Mull. ducts

Androgen receptor
insensitivity

46xx

Norm. ♀

ovary

E₂

no ut.

vag. pouch

Br. +ve

Vagino-plasty
"creation of
neovagina"

vag.
McIndoe
Abd
colon-
vaginoplasty

Norm. & beautiful

testis
labia

300 ng/dl test.
Periph. E₁ pg/ml

no ut.

vag. pouch

Br. +ve

Vaginoplasty

Gonadectomy
must be done (?)
at 18 yrs (?)
followed by ERT (?)

It is an X-linked
recessive dis
→ absent receptors
to androgen
(end organ insensitivity)

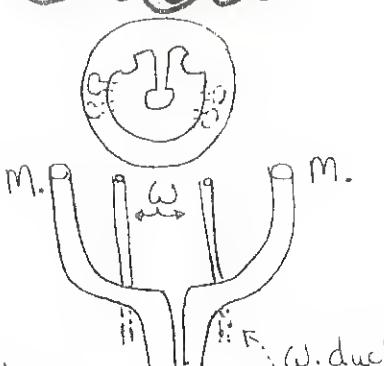
Assessment

History false: cyclic lower abd. pain
 true: Breast -ve
 +ve

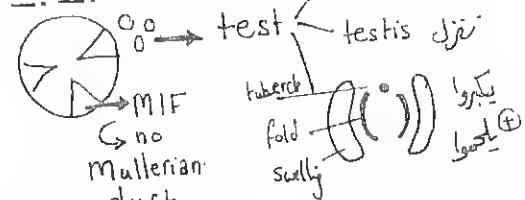
Exam false: Hymen -ve ... ccc. of
 true: Breast +ve ... ax, pubic
hair

Inv. false: U/S... Hemato colpus
 true: Karyotype metra
supina
 U/S no ov...
 no uterus...

Embryology



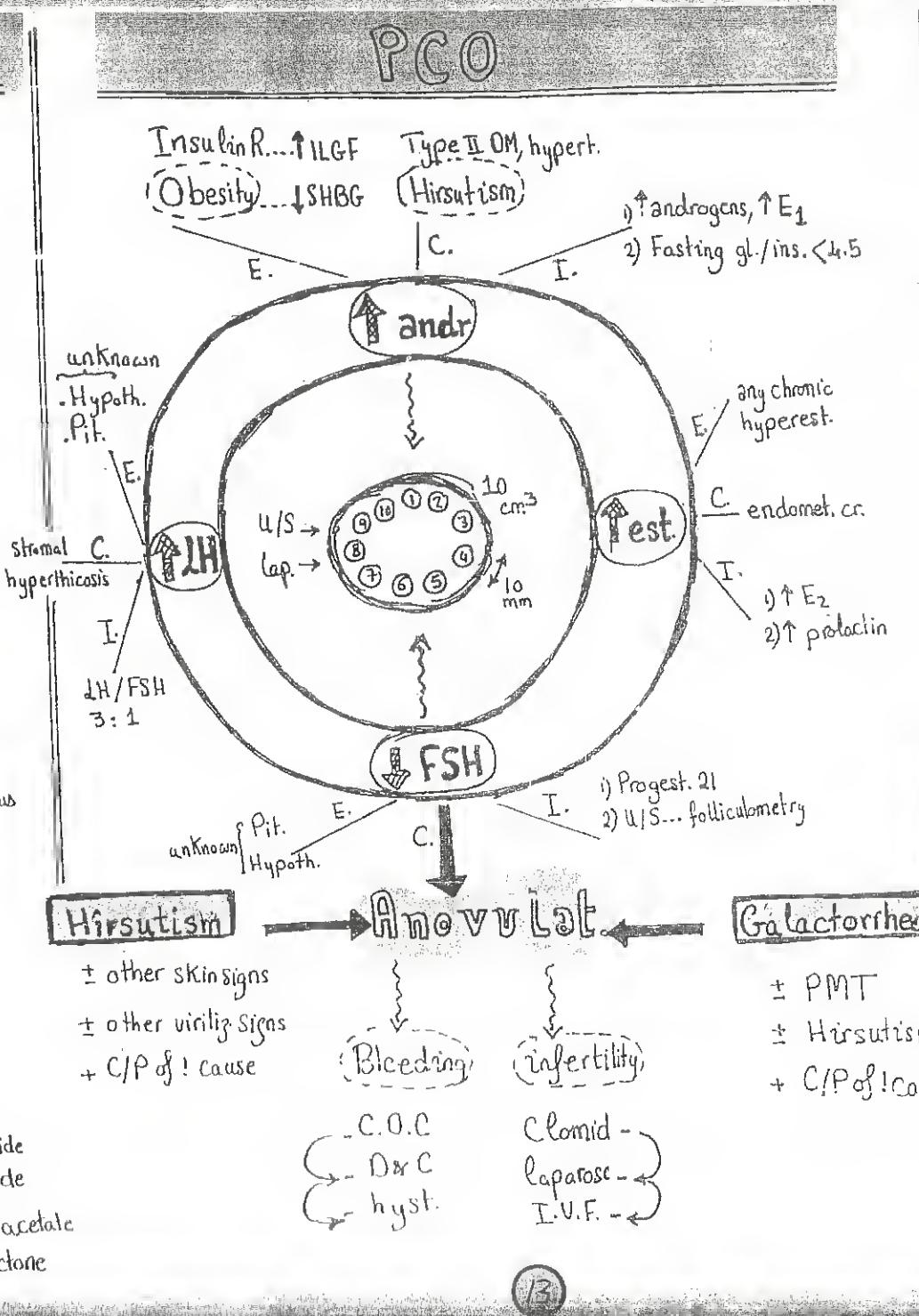
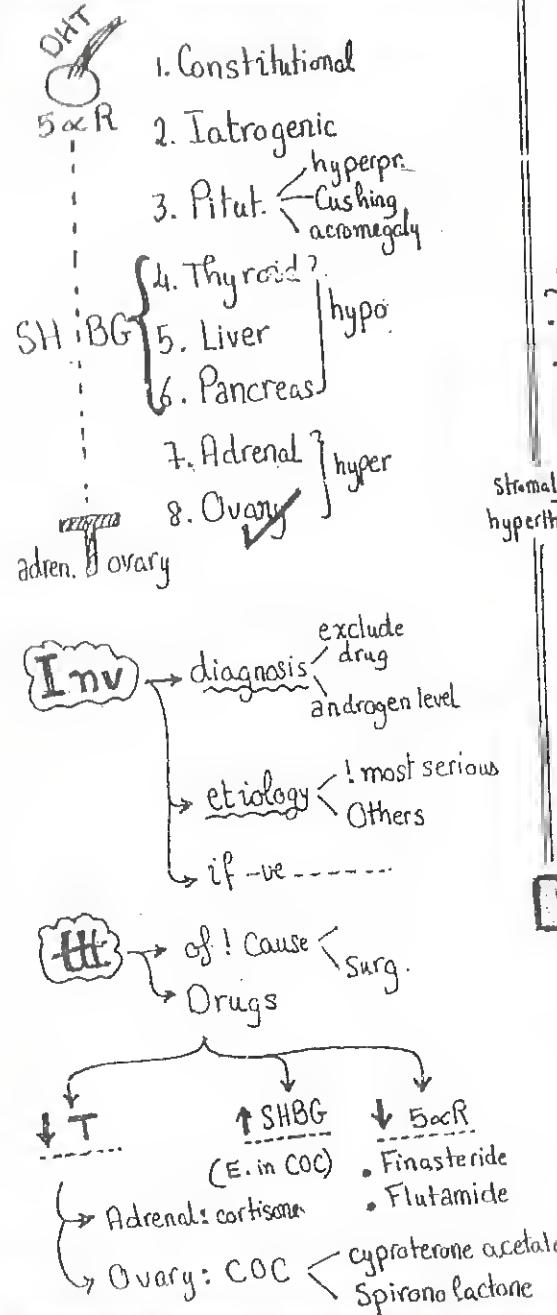
testis



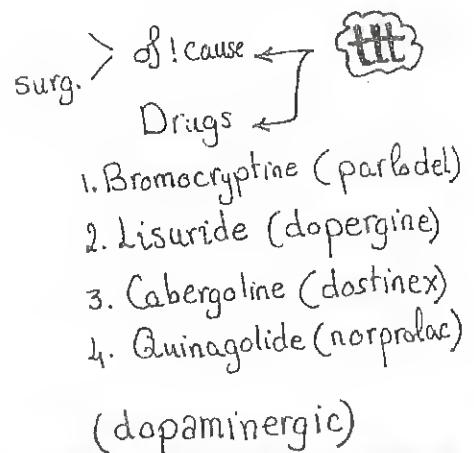
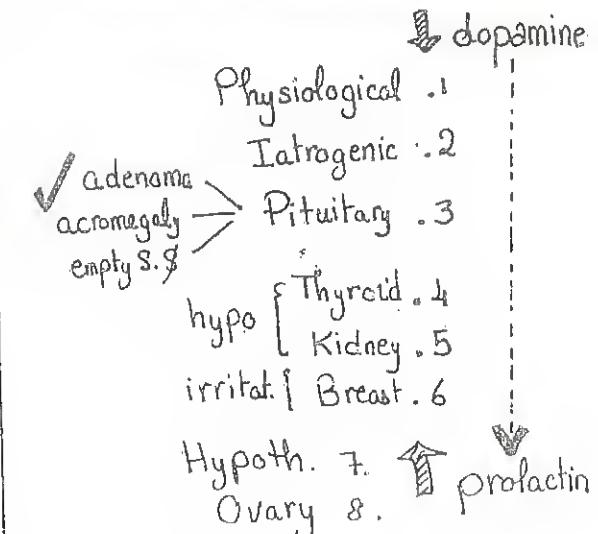
ovary

No MIF → M. ducts
persists
No test → Wolf. ducts
disappear

Hyperandrogen.



Hyperprolactin.



Spasmodic \leftarrow idiopathic

Def.

spasmodic (colicky) pain with No organic pelv. path.

C/P

1. **Type of pt.** **Age** - 2-3 yrs after menarche \rightarrow only in ov. cycles
- improves after 25 yrs ov. cycles
- more in virgins (sedentary life)
- improved after labor (cx. dil.)
2. **Type of pain** **Site** ... lower abd. spasmodic \rightarrow lower limb
- time ... 1st day \rightarrow ↓ after 24 hours
- association ... N&V, diarrhea, sweating, facial pallor

Etiology

1. excess PG \rightarrow obstruction ... cx. stenosis
- as they occur only in ov. cycles
- PG intake \rightarrow painful ut. cont.
- explains associating Sympt.
2. retained menses \rightarrow hypoplastic ... uterus
- disturbed ... polarity

Habits

- Reassurance ... \rightarrow مطمئنة
- avoid emotional dist., sedentary life, smoking

\Rightarrow General

\Rightarrow Medical \leftarrow anti-PG ✓
C, O, C. \rightarrow E \rightarrow ↑ development
P \rightarrow Rebox uterus

\Rightarrow Surgical

! لجع

uterus
vessels

1. D&C \leftarrow dilates ! pathway.
lacerates paracerv. Symp. \rightarrow مطعنة
2. LUNA (presacral neurectomy)
cuts motor, sensory nerves

\rightarrow مطعنة \rightarrow مطعنة

Def.

- Presence of cyclic Sympt. ≈ 150
- Both Physical & psych.
- in ! luteal phase
- should be ovulatory
[relieved by menses, not present in follicular phase]
- in ! absence of any pelvic path.

Etiology

- 1) serotonin, β end. imbalance
- 2) ↑ E / ↓ P ratio
- 3) vit B₁, B₆ def.

PMT

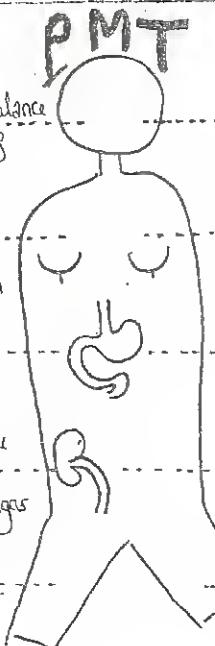
↑ Prolactin

↑ PG

↑ ADH, aldosterone

High salt, low sugar diet

↑ PG



Congestive (2nd)

Def. cont. dull aching pain \leftarrow to p. pathology

C/P 1. Type of pt.

\leftarrow Age \rightarrow later in life
 \leftarrow Parity \rightarrow in MP

2. Type of pain

\rightarrow site ... lower abd. + backache
 \rightarrow time ... 3-5 days before menses
 \rightarrow gradual ↓ with time
association ... menorrhagia
Polymenorrhea
vag. disch.

Etiology

- Cong. ... ut. anomalies

- infl.

- neoplastic

- miscellaneous

\leftarrow displacement

functional (simple)

(anxiety, constipation)

coitus interruptus

Habits

1. of ! cause ✓

2. Analgesics

3. Glycerine icthyol Supp.
 \downarrow constip. \downarrow congestion

Membranous

Ovulatory

2nd Spasmodic

MiHleshertz

fluid

PG

discharge

mid cyclic spotting

↑ fluid

↑ PG

↑ discharge

mid cyclic spotting

↑ fluid

↑ PG

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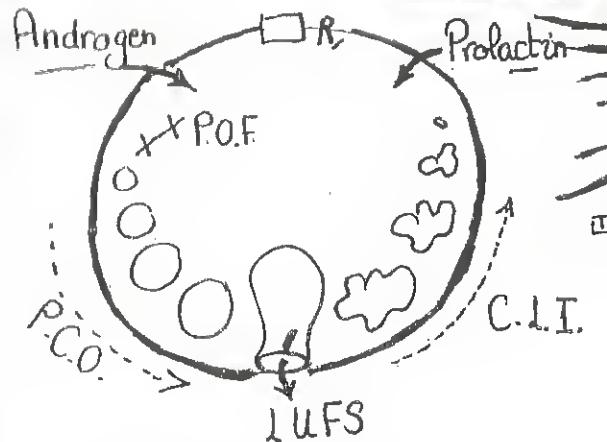
1 Etiology

2 Assessment

3 TTI

Cong.	Tr.	Inf.	Neop.	Misc.	History	Invest.	ART
I H.P. failure	II H.P. dysfunction 1 st /2 nd (PCO)	III ovarian failure	Others. • Prolactin↑ • androgen↑ • CLT • LUFs		<ul style="list-style-type: none"> disch. pain spotting mid-cyc. "E" "C.L." \Rightarrow Regular sp. dysm. \Rightarrow PMT \pm genital endoc. am... PPI block galactorrhea \pm general endoc. hirsutism \pm <u>genital endoc. & general endoc.</u> 	<ul style="list-style-type: none"> folliculometry G. E.T. L. LH \rightarrow Prog. ✓ 	<ul style="list-style-type: none"> induction of ovulation PEB Spinbarke Fern vaginal cytology
-hypoplasia -diverticul. -ostium	surgery on near	PID 2 nd ✓	stretching tube fib. \rightarrow ov. cyst	E \emptyset	<ul style="list-style-type: none"> Previous surgery PID \leftarrow fever abd. pain discharge E\emptyset \leftarrow Pain bleed inf. infectivity preview surgery \leftarrow B&C fibroid (ABCDE PPPP) postpartum inf. (Ascherman) 	<ul style="list-style-type: none"> laparoscope Tuboscope 2nd-3rd Post-menstr. 1. 2. 3. 4. 5. 6. T. coagulation 	<ul style="list-style-type: none"> Tuboplasty laparoscopy, hyst. ovari-HSG HyCoSy E\emptyset \leftarrow ind. of ov. surgery
• Mullerian agenesis • TFS	Ascherman		fibroid	displacement			Surgery
Atresia	• cauterization • amputation • cone biopsy	Chronic cervicitis	Polyp	Poor cx or mucous 1. wrong time surgery 2. & gland clomid 3. infection 4. immunolog.	<ul style="list-style-type: none"> Purulent discharge Low back-ache deep dyspareunia sexual H. \leftarrow dyspareunia frequency use of lubricant 	<ul style="list-style-type: none"> mucous: Moghisi score sperm: 5-20 forward if -ve \rightarrow sperm penetration tube slide 	<ul style="list-style-type: none"> inf. \rightarrow Antib. cauter. \rightarrow cstds I min. \rightarrow cstds Poor \rightarrow E
Septum	surgery scarring	hostile sec.	rare	Abs \leftarrow agglutin. immobiliz.	<ul style="list-style-type: none"> • DM • anti \leftarrow hypert. depressants \rightarrow urethral disch. \rightarrow previous surg. 	<ul style="list-style-type: none"> semen \leftarrow 20 30 50 Azo OTA C & S imm. assay 	<ul style="list-style-type: none"> impotence Psychotherapy surg. correction
hypospadius epispadius	spinol surg. (\hookrightarrow retrograde ej.)	DM					
-cong. abs. vas -cystic fibrosis -Kartagener \$	surgery (Hernia)						
-							
Sertoli cell only synd. undesc. T. Klinef. S.	• Direct • Thermal • irradiation	Mumps	rare	2 nd test. failure (low FSH)	<ul style="list-style-type: none"> cytotoxic drugs irradiation anti fungal anti malarial 	<ul style="list-style-type: none"> obst. 3rd FSH 2nd failure Karyotyping CT brain 	<ul style="list-style-type: none"> AIH (if failure)

ROS



1. Super-ovulation

long protocol: GnRH ant.... Θ
 short protocol: FSH... HCG.... Θ

2. Ovum pick-up

Clomid \pm HCG

50 mg 1x2x5
 starting on 2nd day
 up to 250 mg
 other cause
 x failure \leftarrow Poor mucous
 C.L.I., L.U.F.S.
 x Others - parlodol, dexam.
 - $T_{3,4}$, naloxone

* Natural: Professi
 * DNA \rightarrow ovidrel

5.000-10.000 IU
 when
 18-22 mm
 1000-1500 pg/ml

FSH LH

- Better results, but more \leftarrow expensive side effects
- Different schedules

urine \rightarrow Humegon ---- I.M.
 Metropin ---- LH $<$ 1 IU

DNA \rightarrow Puregon ---- S.C.

\leftarrow GnRH

only if given pulsatile \leftarrow nasal spray
 pump

Side effects

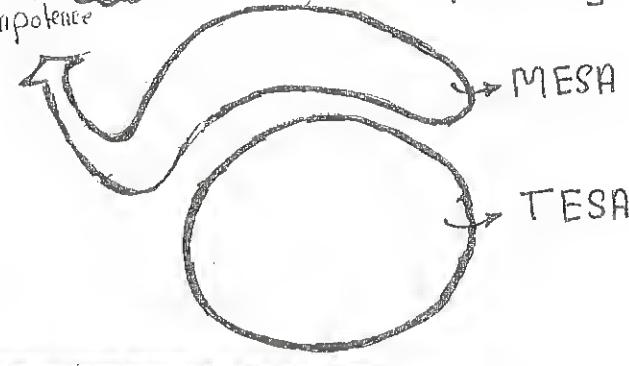
1. Multiple preg.
2. Abortion, PTL
3. Ectopic
4. OHSS
 - esp if HCG
 - rare with Clomid
 - never with GnRH



better to be combined
 with induction

IUI

C.
 .OTA
 .impotence



No diuretics
 Laparotomy

\leftarrow heparin
 \leftarrow albumin

6. Luteal Phase Support

E.T.

GIFT

ZIFT

5. uterus

I.V.F.

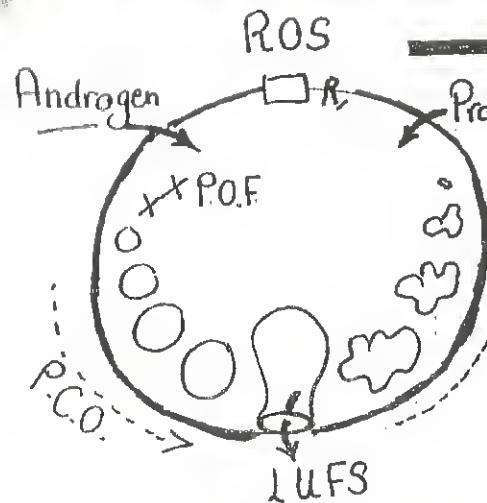
Microinsemination

ICS

Suz

→ Anti-PG
 → Washing, centrifug
 → mucolytic
 → Caffeine, Kali Keri
 → Antibodies

3. sperm processing



Clomid ± HCG

50 mg 1x2x5
starting on 2nd day
up to 250 mg
other cause
failure

* Natural: Professi
* DNA → ovidrel
5.000-10.000 IU
when
18-22 mm
1000-1500 pg/ml

* failure
Poor mucous
CLL, LUFS
- progestin, dexam.
- T_{3,4}, malotrexone

FSH

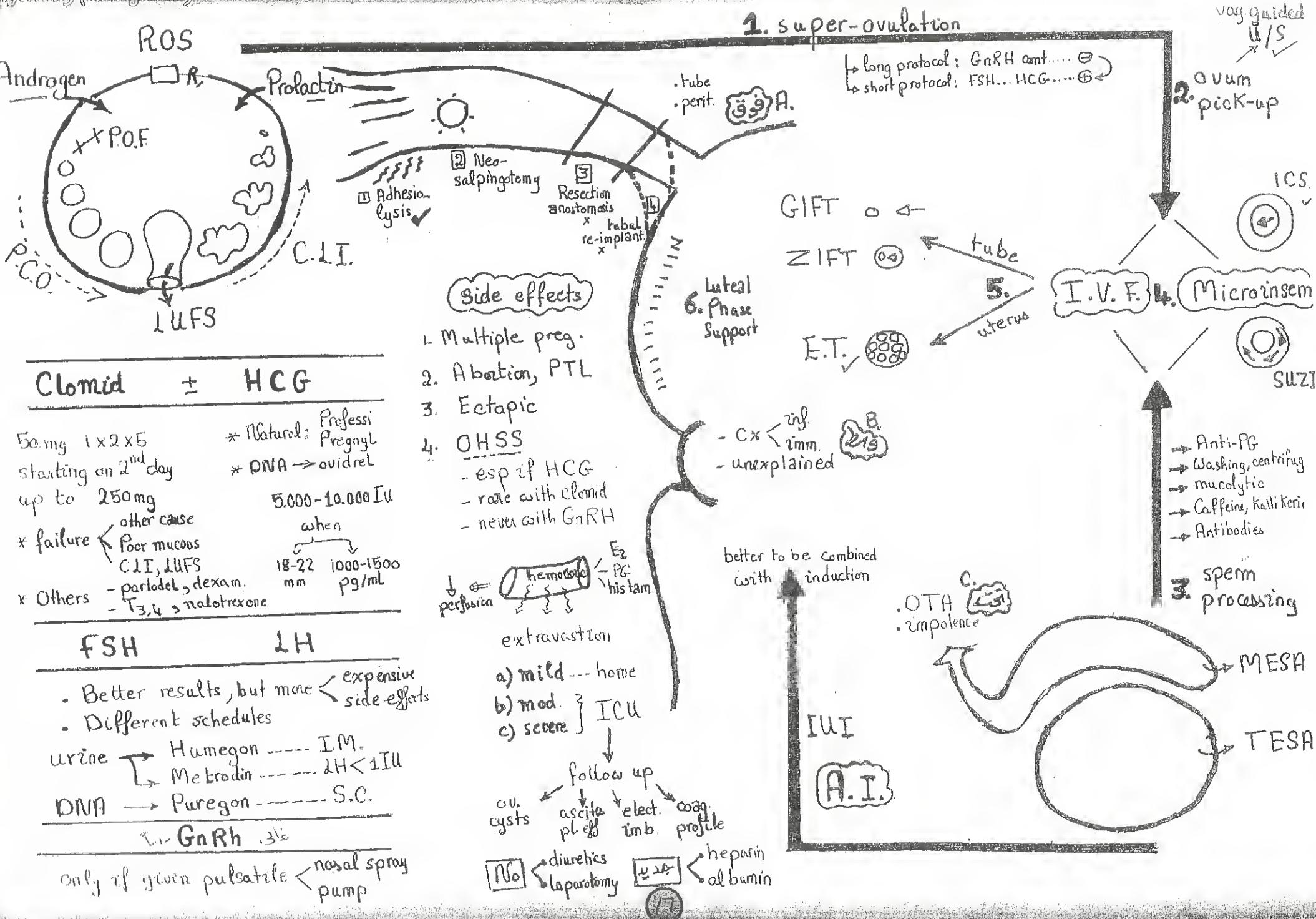
- Better results, but more expensive
- Different schedules

urine → Humegon ---- I.M.
Metrotropin ---- 2H < 1IU

DNA → Puregon ---- S.C.

↳ GnRH 3x

only if given pulsatile nasal spray pump

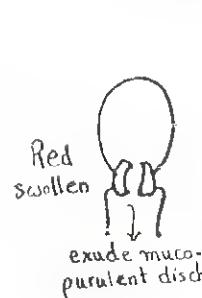


Infectivity (organisms)

Gonorrhoea	B. Vaginosis	Chlamydia	HPV	T.B.	H
<p>Org</p> <p>G-ve IP 3-7 days</p> <p>Path</p> <ul style="list-style-type: none"> Adult... STD child - contamination neoborn - ophthalmia neonatorum <p>CP</p> <p>spread</p> <p>osis discharge only fishy excessive greyish</p> <p>itis x asympt. 50% No - PPdd - pus cells</p> <p>2nd</p> <p>M.P. discharge</p>	<p>- H. vag (Gard. vag) - mycoplasma - ureaplasma</p> <p>Path</p> <p>virus bact. DNA RNA Abes</p> <p>15 serotype</p> <p>ABC... trachoma</p> <p>D-K... STD</p> <ul style="list-style-type: none"> Col. epith. (G) preg... sole neoborn male... sole acidic humid s; COC <p>20-40% Normal habitant (50%)</p> <p>alk. certain media ↓ resistance loss of balance antibiotics</p> <p>II > I</p> <p>70 serotype</p> <p>recurrence in 60% cr.cx 16, 18</p> <p>6... 11</p> <p>100% C/P of ch. PID</p> <ul style="list-style-type: none"> 50% Tubercles 5% Cagulation 5% Polypi 100% ulcers 	<p>Chlamydia</p> <p>spores Hyphae mycelia</p> <p>Albicans, Trop, Krasz</p> <p>> pus cell</p> <p>Path</p> <p>pre Menst post</p> <p>odorless curly white edema matting fistula</p> <p>PPdrl Disch</p> <p>yellow frothy red with adherent white patches</p> <p>O/E strawberry vagin</p> <p>Colposcope</p> <p>2nd inf.</p> <p>retention</p> <p>Preg. neoborn</p> <p>1st 2nd 3rd</p> <p>1st 2nd 3rd</p> <p>catylyoma accuminatum flat (cervix) inverted</p> <p>II > I</p> <p>DNA</p> <p>vaculated multi-nuclear cells</p> <p>Koilocytes</p> <p>malig. II</p> <p>colposcopy, Pap stain biopsy</p> <p>G. Chest x-ray ESR HSG lap. Zeil Nelen Low. J. n. G.P. inocul biops</p> <p>G. urine stool ova</p>	<p>HPV</p> <p>Mycobacterium tuberc. > bovis</p> <p>Schistosoma haemat. > manus</p> <p>Blood borne</p> <p>Peritoneal</p> <p>lymphatic</p> <p>ascending with semen</p> <p>through</p> <p>Recto-Vagino - cervico plexus of vagina</p> <p>rare</p> <ul style="list-style-type: none"> * Polyps * Noddy patch * calcif * ulcers 	<p>T.B.</p> <p>H</p> <p>urine stool ova</p> <p>Biopsy</p> <p>Endoscopy (Laparoscopy)</p> <p>CFT</p> <p>4.8 IM 1 gm + probenecid Spectin- omyein 2gm IM</p> <p>* Procaine penicillin 250mg</p> <p>+ if chronic surgery</p> <p>* Barth. cerneille 3. PID</p> <p>* Rocephin (eft) 1x2x7 300</p> <p>* Clind. Flagyl 250</p> <p>Erythromycin Tetracycline 1x4x7 esp. if chlamydia 500</p> <p>Comp. = septic focus - Gyna & obst</p> <p>1. Barth. cerneille 2. PID 3. PID</p> <p>Azithro-mycin 1 g. single dose 10ml abdo inst</p> <p>> mycin</p> <p>Alkaline douche Prophylaxis Drugs</p> <p>1) mycostatin 2) canestan 3) Gynodaktarin Diflucan Sporanox</p> <p>Flagyl 500 Flagyl Tenidazole Ornidazole</p> <p>Recurrence</p> <p>1) Chem. cauter 2) Cryocaut 3) Surg. excision cyclovar</p> <p>I. Isoniazid Rifampicin Ethambutol * NSO tubal microsurgery</p> <p>Biltricide (Praziquantel)</p> <p>Amblihar + surgical excision of vulval polyps</p>	
<p>Path</p> <p>(cervix) rectum pharynx</p> <p>my sites 2nd sites</p> <p>Thayer Martin New York City</p> <p>Elisa</p> <p>CFT, HAI</p>	<p>oil immersion field</p> <p>inclusion bodies</p> <p>Clue cells</p> <p>MacCoy</p> <p>Elisa</p> <p>PCR</p> <p>> mycin</p> <p>< 4.5</p> <p>> 4.5</p> <p>Clue cells</p> <p>MacCoy</p> <p>Elisa</p> <p>PCR</p>	<p>< 4.5 Ph > 4.5</p> <p>+ve Gram -ve</p> <p>algal Freshtrap</p> <p>Culture</p> <p>Sabouraud Nickerson</p> <p>Diamond Feinberg Trichocle</p>	<p>vaculated multi-nuclear cells</p> <p>Koilocytes</p> <p>malig. II</p> <p>colposcopy, Pap stain biopsy</p>	<p>G. Chest x-ray ESR HSG lap. Zeil Nelen Low. J. n. G.P. inocul biops</p>	<p>G. urine stool ova</p> <p>Biopsy</p> <p>Endoscopy (Laparoscopy)</p> <p>CFT</p>
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Infectivity (cervicitis / PID)

1. **Org.**
 - Non-specific: staph, strept
 - STDs: monilia, TV, viruses, gon., chlam.
 - chr. gr. dis.: TB, B



- FAHM-R
- backache
- discharge

chronic dis.

- Racemose glands
- no monthly shedding
- Glands are deep abcts. \Rightarrow bldg. excret

- \uparrow TLC, ESR, CRP
- cervical swab

proph.

1A

2A

3A

medical

1A

2A

3A

Surgical

Cautery

- electro
- cryo
- chemical
- Laser

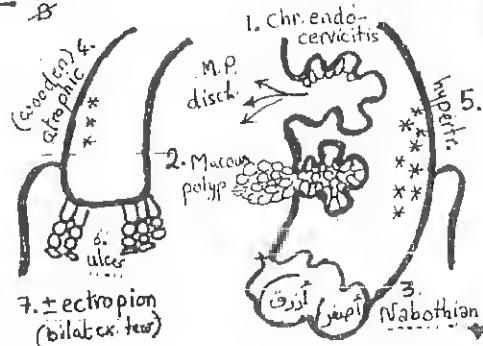
Surgery

- Conization
- amputation
- hysterectomy

Etiology

2. **PdP**
 - obst.: labor, abortion
 - gyna: O&C, IUCD [bed by]
 - S.I.: Boehr. Previous inf.
 - Barrier COC

Pathology



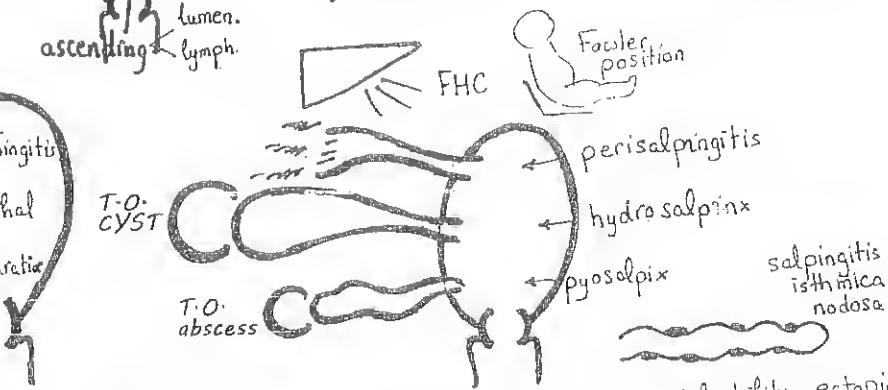
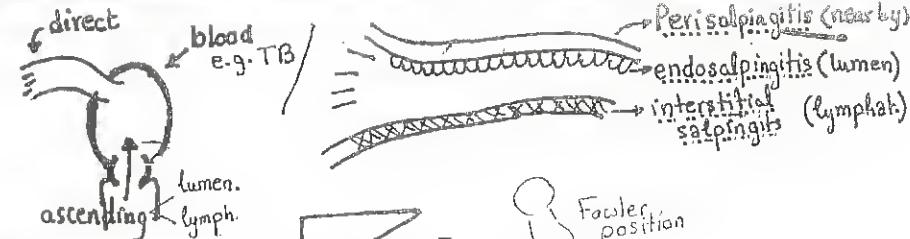
C/P

- * toxic look (usually asympt.)
- * congestive sympt. \leftarrow pain, bleeding, discharge
- * tender mov. of cx \pm any path. form

Comp.

- chronic cx
- \rightarrow infertility: hostile cx mucus
- Preg: local
- Spread: septic focus \leftarrow general
- Malign.: ?!

Route



Inv.

- 10% gonorrhoea
- more acute sympt. \therefore early diagnosed
- 60% chlamydia
- more asympt. \therefore damage later on

- infert. \downarrow
- ectopic
- spread

Comp.

chronic cx

comp.

Criteria

all 1. ①

major

one minor

Temp $> 38^\circ$, \uparrow TLC, ESR

mass (PV, US)

org + pus (swab, laparosc.)

U/S \rightarrow adnexal mass (x follow up! size)

Laparoscope \leftarrow if diagnosis is uncertain

edema, hyperemia, sticky exudates

if no response in 48 hrs

U/I

Proph.

medical

Surgical

Prop.

medical

Surgical

1. A

1. A

pelvic abscess

2. A

2. A

3. A

post-look

19

look

U/S

19

1. A

2. A

3. A

post-look

U/S

small T.O. abscess

post-

calpotomy

aspiration

U/S

small T.O. abscess

post-

calpotomy

aspiration

U/S

old

young

adnexectomy

ICSI

drainage

if pus

removal

if mass

TAH + BSO

old

young

adnexectomy

ICSI

TAH + BSO

drainage

if pus

removal

if mass

TAH + BSO

old

young

adnexectomy

ICSI

TAH + BSO

drainage

if pus

removal

if mass

TAH + BSO

old

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young</h

Cervicitis

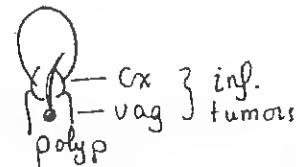
D.D. of leucorrhea

excess of: N. disch

Phys: ↑ H. Premenst, Pregnancy
Path: any path → pelvic cong.

D.D. of contact bl.

CIN: 



D.D. of barrel shaped cx

cx (cervix)
- cx fibroid
- cx cancer
- chr. hypertr. cx
- ectopic abortion

D.D. of dGT ulcers

- Traumatic: episiotomy, pessary
- inf: STI, ch. gr., TB, S, B, herpes, 2GV, chancre, gr. inguinal
- Neoplastic.

Cervical erosion (ectopy)

- Def.: Replacement of! normal str. sq. epith. of ectocx by → columnar epith → bright red area

- etiology: ch. cervicitis, cong. (rare), hormonal (common), preg, COC

- Sympt: leucorrhea, contact bl.

- exam: flat, papillary, follicular

- Inv: colposcope, smear, biopsy (fear of malign)

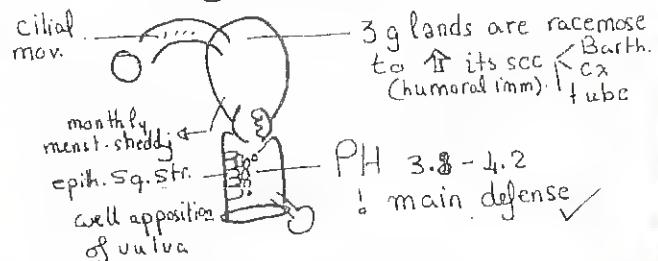
- ttt: cervitis: Abx, hormonal: no therapy, electro, cryo, mainly cauterization, Laser

Vulvo-vaginitis

Normal flora

	G+ve	G-ve
Aerobes	lactococcus, staph aureus, GBS, Ent. faecalis, Diphtheroids	E. coli, Klebsiella, Proteus, enterobacter, Pseudomonas
Anaerobes	peptostreptococcus, clostridium, Gardnerella	Bacteroids, Bacillus fragilis, fusobacterium
	⊕ Candida	⊕ T. vag.

defensive mech



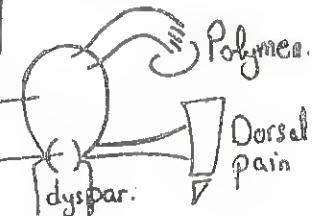
Pdf for inf.

- 1) M. → ↓ immunity, steroids, antibiotics
- 2) L. → Acidic ph, Pre-pubertal, Post-menop. vag. 
- 3) ext. → Sex. IC (esp. multiple part), F. Bolly (tampon, IUD), vag. douche (alter ph)

P.I.D.

Congestive sympt.

1. PID (TB).... menorrhagia
2. E. coli..... Congest. dysm.
3. Fibroid.... leuc.
4. ov. mass...
5. ectopic...
6. Appendicitis...



CDC recommend. for Abc. Regimen in PID

Parenteral (I.M.)

2g IV/6hrs, 2g IV/12hrs

cefoxitin/cefotetan

or

Oflaxacin

Oral

Levo-floxacin

500 → 1x1x1/4

Ampicillin/sulbactam

400

1x2x1/4

3g IV/6hrs

+ 100 mg IV/12hrs

Doxycycline 100

Metronidazole 500

1x2x1/4

Clindamycin

300 mg IV/8hrs

2mg/Kg gentamycin

then 1.5 mg/Kg/8hrs

Ceftriaxone 250

1M once

Cefoxitin 2gm

1M

no improv. for 72 hrs

formation of abscess

Diag. is uncertain

Nulliparity (affection of fertility)

severe cond. (TO mass)

Immuno compr. large ruptured

if infertile

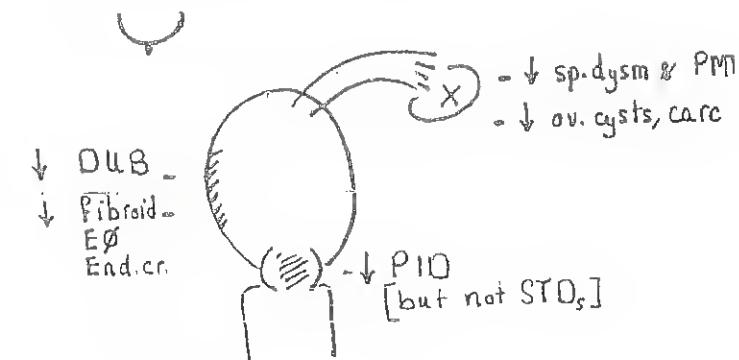
Removal of tubes (or clamping) via laparoscopy → ART is better than tuboplasty

Comp. of IUCD + "p"

1: no restrictions	3: not recommended
2: generally used	4: not used

C.O.C.

Non-contraceptive benefits



C.O.C. & tumors

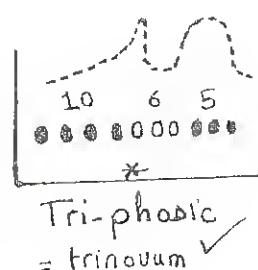
- ↓ 3 ↑ (slight)
- fibroid, end. cr, E&P
- ovarian cancer
- Benign br. lesions
- malig. br. lesions

Types of C.O.C

50. high dose: oral
30. low dose: microvaginal
20. IUD

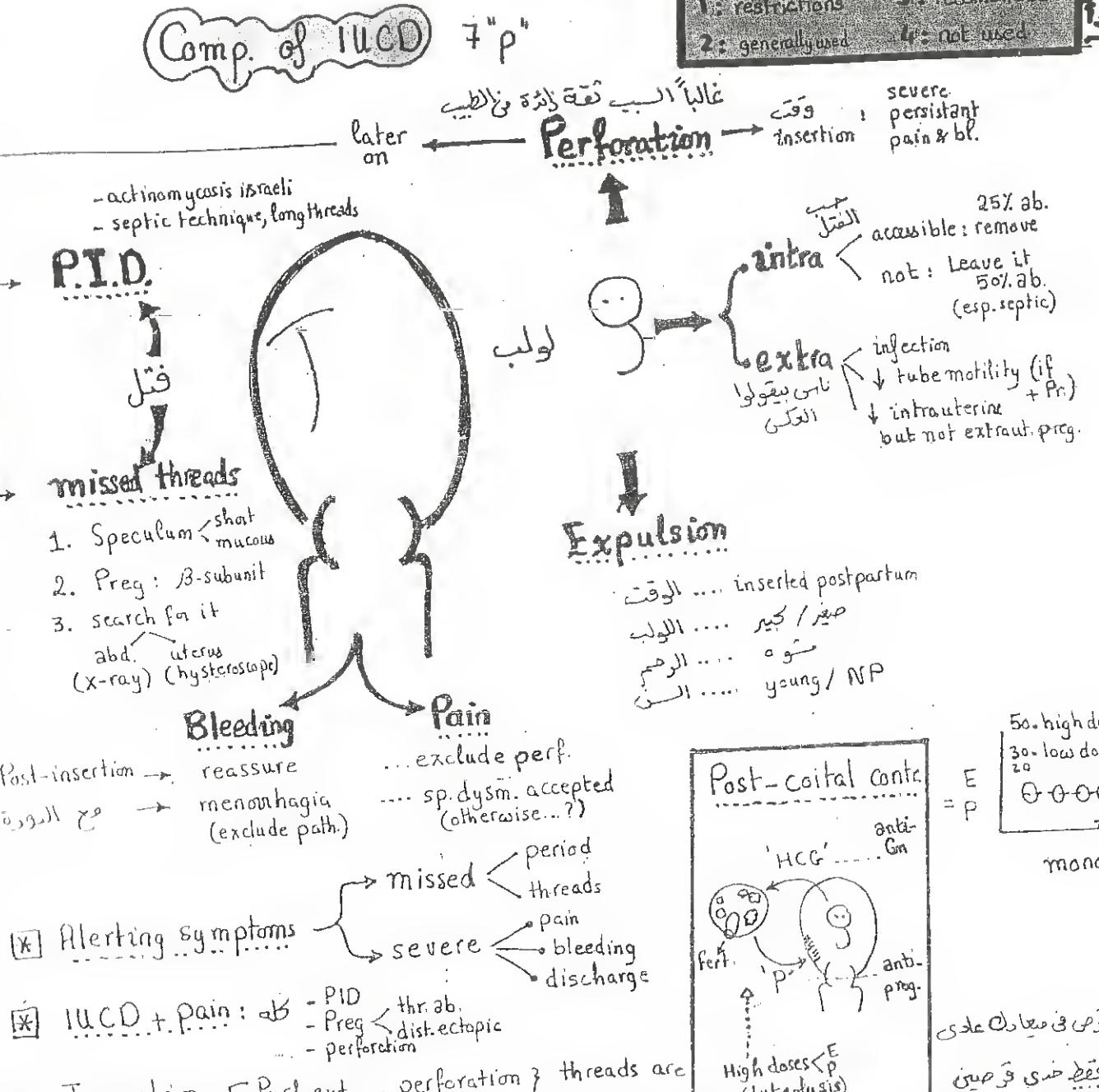
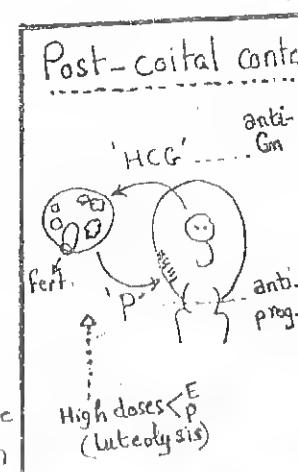
Px2
0 0 0 0 0 0 0 0
*
mono-phasic

Px2
0 0 0 0 0 0 0 0
*
Bi-phasic
= binovum



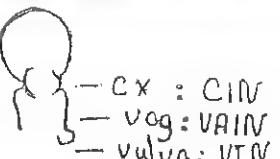
Missed pills

- مسقط قرص... حتى قرص... وبعد كده قرص في ميعاده عادي
(أول ماقترن)
- مسقط قرصين... حتى قرصين... والمرة الثانية قرصين حتى قرصين
+ بعد كده عادي back-up



1 Def. Benign or Malign.

- Invasion of B. memb.
- Atypia: cellular / cytological



2

1 endomet

↑ fed d.t.

estrogen

(post-menop)

- Age....
- Parity.... low abn → belo: cx

2 ovary

age ov. trauma

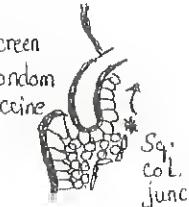
(any age but >70)

3 Cx

↓ fed d.t.

HPV < sex smoking

(35-55)



3 Etiology

chronic irritation by...

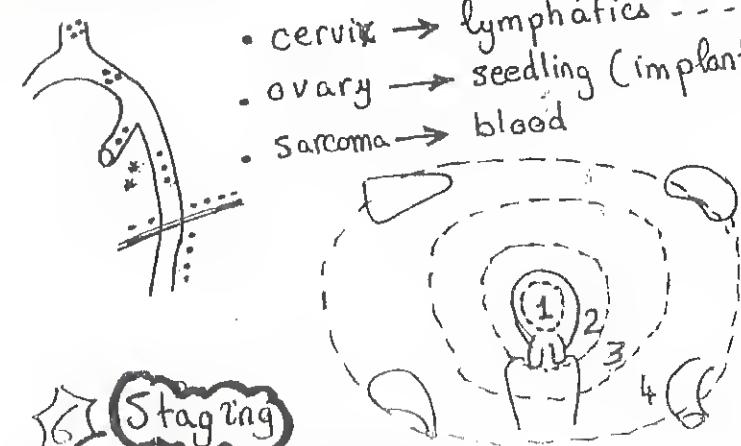
4 Path.

- Mac ... starts ... local : 1 2 3 4 then diffuse
- Mic → epith ... col ... Sq
- Adenocarcinoma Sq cell cr.

5 Spread

endomet → direct

- cervix → lymphatics ... systemic dis
- ovary → seedling (implantation) ... early stages
- sarcoma → blood



may be

- 1) surgical: 1 2 3 4
- 2) clinical: 1 2 3 4

1 ... local "1"

2 a: Bl/R.

3 b: distal spread

6 Staging

for lines of therapy

Prognosis

7 CP

Symt

1. Bleeding post & - end cr
2. Swelling peri & - fibroid contact & cx
3. disch. leach. purulent
4. Pain (rare & late)

Signs

G.: - cachexia, anemia, metastasis

A.: - swelling - ascites

L.: - PV Bimanual PR ... rectum

* Cause of death

8 Inv.

	end.	Cx.	ovary
Screening	TV.US	Pap	tum. marker
Diagnostic	D&C	Leep cone	Laparotomy & path.
Preop	HB%, chest x-ray, ECG, RBS		
Spread	radiology ... endoscopy		

9 D.D.

Bleeding of swelling pain

10 I.t.t.

Prophylaxis

therapeutic
"acc. to stage"

Prognosis
"5 YSR"

etiology

- endomet → surgery
- Cx → radioth.
- ovary → chemoth.
- palliative: ...

endomet ... ovarian

Path

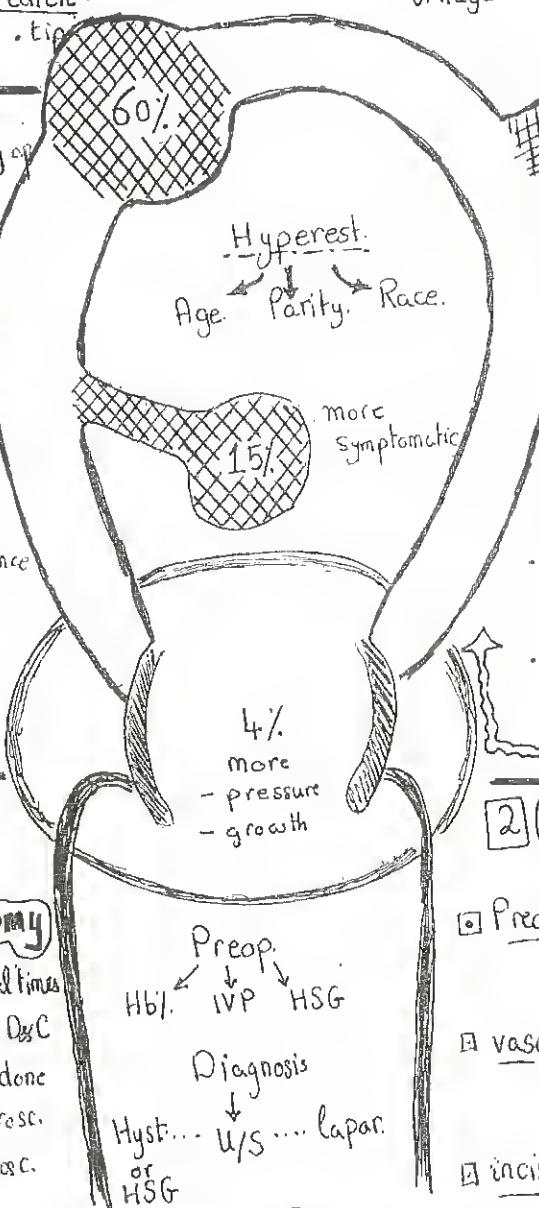
SSSS
NM
CCC

No	Site	Supply	Shape	Size	Cut section	Caps.	Consist.	Mic.
↓ solitary or multiple	1. Corporeal 95% - interstitial - subserous - submucous	1. Capsule - center..... less vasc. - periphery... more vasc.	↓ spherical	mic. up to v. huge	↓ whorly	pseudo. = compressed tissues	* hard.... Ca ⁺⁺ * soft → deg. → malig. (v. soft) → preg:	↓ smooths + fibrous tissue
	2. Cervical 4%	2. Pedicle - tip			20%			
	3. extruterine 1%							

Comp

1 Degeneration.

- near menop. usually
all will loose whorly of
- Fatty change
Ca⁺⁺ = womb stone
- Red deg. ↓
→ hyperpig. pain
→ conserve fever
.... never surgery
- Atrophy ↓
Ca⁺⁺
→ menop. except (HRT malig)
- Hyaline (myx.)
- Pseudo-cystic



C/P

NBCDE

3P

2 Bleeding

- * menorrhagia
 - ↑ ed vasc. size
 - end. hyperpl
- acc. * metorrhagia
 - ulcerated polyp.
 - cancer end.
- * Polycythaemia

Comp. (infert.)

- * functional H. disturbance
- * Anatomical
 - tubes
 - uterus
 - Cx

Ht

- acc. to
- if acc.
discovered
- Young or
Menop.
- no
sympt

No

- Mild bl.
small size
 - iron
 - est ↓
 - Preg.
 - dazol/dimet
 - III Rh

Severe

1 Polypectomy

- twist several times
- followed by D&C
- could be done by hysteresc.
- laperosc.

Preop.
Hb↓
IVP
Diagnosis
Hyst...
or
HSG
U/S...
lunar.

2 Myomectomy

- Preop
 - post menst
 - elevate hb%
LHrH for 3m.
- vasc.
 - ut.c. Benney clamp
rubber catheter
assistant hand.
 - ov.c.
vaso compression
- incision
 - single
ant.
do one by one

3 Hysterectomy

- old age
completed family
- Fibroid br. lig.
- malig. end. cr.
- myomectomy bleeding
recurrent multiple

Etiology

unopposed
Hyper-
estrogen.

Epidemiology

- Age
- Race
- Class

Etiology

- Menst. ccc
- Endogenous
- Exogenous

Association

- "CCS"
- Obesity
- D.M.
- HTN

C/P

short period amen.
→ bleeding



Peri-menop. bl.

Post-menop. bl.

1. Bleeding

إِيَّاهُ الْقَاعِدَةِ:
Common
إِيَّاهُ قُوَّتِيَّةِ:
Rare

2. Pain

إِيَّاهُ الْقَاعِدَةِ:
Common
إِيَّاهُ قُوَّتِيَّةِ وَجْعِ:
Rare

3. Discharge

إِيَّاهُ الْقَاعِدَةِ:
Rare
إِيَّاهُ الْجُمُورِيَّةِ:
Rare

4. Swelling

إِيَّاهُ الْجُمُورِيَّةِ:
Rare

Exam.

G. ↓
H. ↓
L. ↓ PR
slightly
bulky

Path.

Large
↑
die
↑

Prolif. endom.
Cystic gl. hyper... 1%
± atypia ... 10%
Adenomat. hyper ... 3%
± atypia ... 30%

Adeno-carcinoma

Adeno-acanthoma

Adeno-sq. cr.

Pure sq. cr.

Carcinosarcome

Inv

1. Screening

TV-US
4-5mm

2. Diagnostic

= Fractional D&C
إِيَّاهُ الْبَطْرِيِّ السَّاعِدَةِ
إِيَّاهُ أَدَقِ حَاجَةِ

3. Preop.

HB%
ECG

4. Staging

radiology
endoscopy

Spread

III A

Simple

Complex

Atypical

III C

II

II +

III

III Rad

II

V. mole [hydrated mole]

GTN

Choriocarcinoma

Def

Benign tumor of trophoblast cells by hydroptic deg.

Etiology

Unknown. m.b. a¹ y oocyte error genetic & mut. immunological extremes of age

A rare malig. tumor of troph.

→ gestational

V.M. 50% ✓ delivery 25% ab., ectop. 25%

→ non-gest. (ovarian)

Metastatic | Non-metastatic

- lung (80%) = cannon ball
- larger than 1st
- regresses after removing 1st

- locally invasive
- Placental site troph. tumor

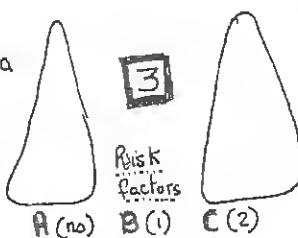
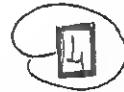
Types

Complete

1. Benign
2. invasive (choriadenoma desseyns)
3. metastatic

Incomplete

- 46 XX
- common
- mali. 5-10%
- vesicles
- 69 XYY
- rare
- rare
- + fetus & placenta



C/P

History --- of amen. & preg. sympt.

G anemia + Comp PIH HG Thyrtox DIC

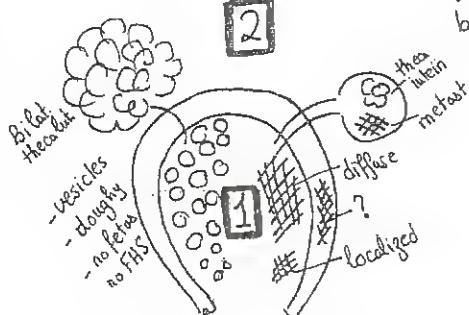
- B-HCG > 100.000
- duration > 6 m^s

recent TOP < V.M. of History

✓/lung liver brain Cachexia + anemia



H . Swelling uterus ↑ ovary ↑
acute dull aching
irreg. bl. + vesicles sharp



uterus = swelling
↑ ovary =
perf. of ut. → pain
comp. cyst =
irreg. bl. after recent TOP.



Inv.

follow-up (progn. diag. snow storm ..

(x-ray) honey-comb.

after evac.

B-HCG

> 100.000 mIU/ml

U/S

- Doppler (intra-mural)

- x-ray, CT, MRI (metastasis)

Histopath

D & C must be done for...



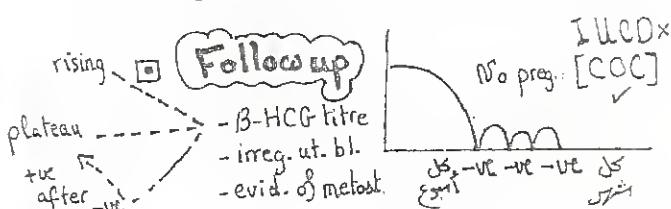
- sheets of mali. troph. cells
- Hgic + avillous pattern

Resuscitation + Surgery

suction evac. hyst. intoto

- followed by ecblotics currage
- No. hysterotomy
- Risk of chorioc. 35%
- ovaries are not removed except...

Follow up



OR MAC / E MA-CO

= (Combined agent) for ! high risk group

= 70% 5YSR (poor prognosis)

Surgery

- hysterect.
- localized excision
- Chemoth. intolerance
- Comp. e.g. severe bl.
- Completed her family

Etiology

- S.I. < 18 yrs
- multiple
- non-circum.
- Virus $\begin{cases} \text{HPV} \\ \text{HSV} \\ \text{HIV} \end{cases}$

- Smoking

Pathology.

- 90% ectocx \downarrow sq. cell cr
- 10% endocx \downarrow adenocr.

Contraind.

1. Pelvic

les
M. & M.

2. Young pts

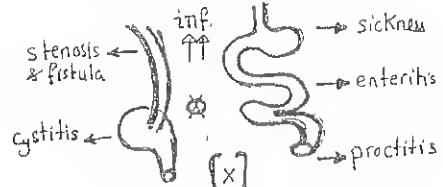
3. adenocarcinoma

Adv.

- * Early \rightarrow DNA dest.

- * Late \rightarrow EAO

Disadv.



Inv. 1 Pap Smear

Ayre's wooden spatula
Techn.

timing $\begin{cases} 1 \text{ yr} \rightarrow \text{high risk} \\ 3 \text{ yrs}! \text{ others} \end{cases}$

2 Colposcope

- epithelium
- vascularity
- acetic acid
- Schiller I₂

3 Biopsy

Punch
Colposcopic
 \times Cone
 \checkmark LLETZ



III of inf. \leftarrow dG.SIL

HPV

+ I

18 yr

stationary

II

III

HG.SIL

+ II

III

30 yr

Progress

40 yr

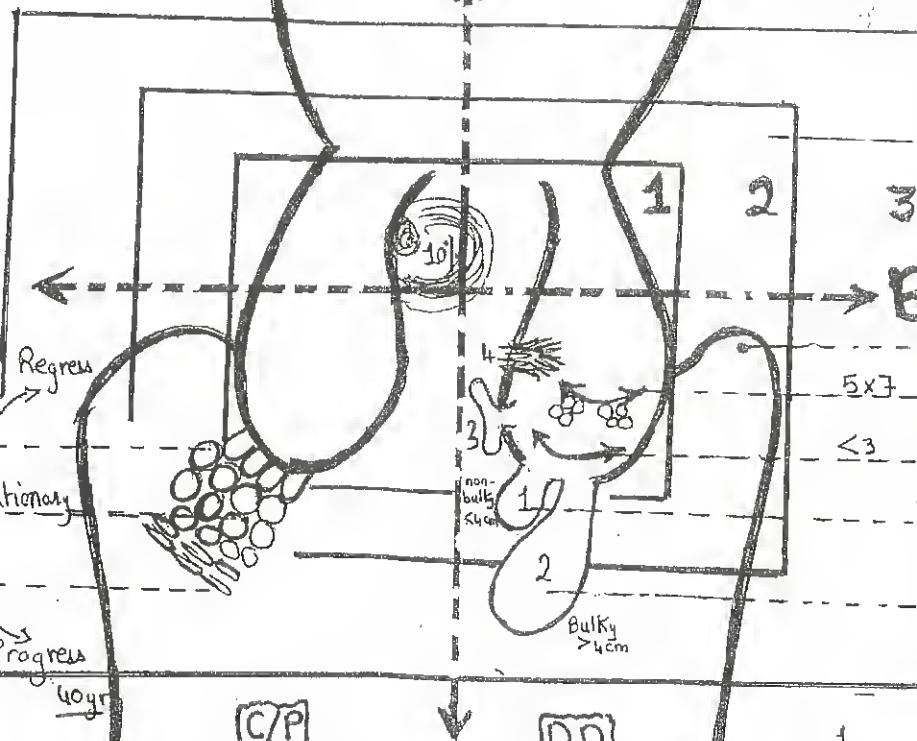
Conserv.

Hyst.

- Conization
- Cauterization
- LLETZ

+ Followup $\begin{cases} \rightarrow \text{Pap} \\ \rightarrow \text{colposcope} \end{cases}$

\curvearrowleft strictly
follow up



C/P

- Bleeding (contact)
- Pain (rare & late)
- Discharge (serosanguineous)
- Swelling

- 1] nodule
- 2] cauliflower
- 3] malign. ulcer
- 4] infiltrating

DD

- * contact bl.
- * ulcers
- * Polyps
- * Barrel shaped ex

Adv.

- * Early \leftarrow inf.

hge
injury: ureter

- * late

- \downarrow lymphocyst
- wound dehiscence

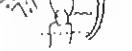
Radiotherapy

IIa (Wertheime)

Ia₂ (extended)



Ia₁ (simple)



Ib₁



Ib₂

4

IIb



III



IV



IV

A

* Aging	40	60	80
	↓	↓	↓
	15	35	55 / 100,000

→ familial (5%) esp. if 1st deg.
→ Genetic / BRCA
Lynch II

* Incessant ovulation
↑ by ↓ by

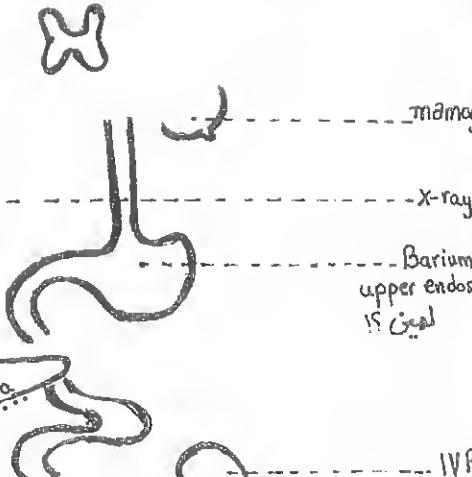
* Exposure to: asbestos, talk

General

* H. effect

* PL effusion
(Mengs)

* Cachexia



Abd.

* enlarged liver
or Kid.

* Ascites,
omentum cake

* Sister M. Joseph

Local

* Mass

- Pelvi-abd
- Atrial
- D. pouch....
- UV pouch....

* Nodules

↳ D.D.:-

-
-
-

① Swelling

↓
Presented as

- 3d f.
- Distension
- Dyspnea
- Discomfort

② Bleeding

- P. cong.
- 2nd to ut.
- functioning

OR
→ Amenorrhea
• Cachexia
• bilat. destructive
hormonal

③ Pain

if
comp.

④ Disch.

cycle

Symptoms ↗
vague
presented late

B

ox - lab < CBC, Hb%, ESR
Tumour markers ↓
1] Antigens - CA125 epith.

2] Enzymes - ALP dysgerminoma

3] Hormones - • β -HCG, α FP germ
• estrogen, andr.... funct.
• $T_{3,4}$ & 5HT monodermal

ox - Scan

ox - scope: laparoscopy < staging
2nd look x

ox - biopsy

- aspiration from ! cyst x
! definitive biopsy is by ?!

D

• Age extremes < v. young:
v. old:

• General Cachexia

• Abd Ascites, omental cake
enlarged liver, paroxysm & N.S.

• Local Bilat., fixed, tender,
Rapid growth
Nodules in D.pouch

• Inv.... ↑ ESR > 100
• +ve markers
• Cytology
• Doppler → high velocity

• Intra-op....
as Abd. & local +
papillae on outer surface
areas of hge & necrosis
large vs on ! surface

Non-neop

Functional



- follicular
- Anovulation
- < 6cm
- followup + COC

③ PCO
E \otimes
TOA

- ③ • Paraovarian cyst
- Wolfian remnant
- pr. effect \rightarrow excision
- Theca lutein cyst
- VM, Rh, OM, twin
- chorioc., OHSS
- Pregnancy luteoma

Prop. 1. Periodic exam.
2. Tumor markers
✓ 3. TVUS + Doppler

Removal in $> 6\text{cm}$, persistent
Hyst. if $\geq 45\text{ yrs}$
High risk (familial)?!

Age.

- childhood..... germ cell
- CBP \swarrow functional cysts
- Dermoid
- Postmenop..... epith.

70-80%
Common epith.

(Müllerian)

1. Serous

- * small, uniloc.
- * psammoma bodies

- may be B, BLM...M
- ! more malig.
- ! more :-

2. Mucinous

- * large, multiloc.
- * rupture \rightarrow pseudomyx. perit.

- Solid \pm hge
- bilat.
- papillae

Mic:

- Stratifical.
- Atypia
- invasion to stroma

3. Endometrioid

- * chocolate cyst
- * post. in D.p.

(Wolfian)

4. Brenner

..... secretes "E"

5. Mesonephroid

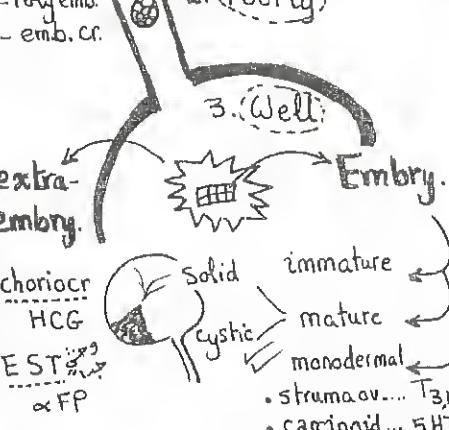
..... clear cell

Primary
Germ cell 5-10%

1. Undiff (dysg)

- ! commonest malig germ cell tumor
- esp. in dysgen. gonads
- secretes HCG \rightarrow P, pub

2. (Poorly)



3. (Well)

- solid
- immature
- cystic
- mature
- monodermal
- struma ovar.... T_{3,4}
- carcinoid.... 5HT

10%
Sex - Cord

1. (Gran. theca)

Gr, Gr. theca } \uparrow "E"

Pure thecoma

Fibroma \rightarrow Malign

- pl. eff & ascites
-

Pseudo-
Malign

- Brenner, thecoma
- multiple SS. fibr.
- OHSS

2. (Sertoli-Leydig)

- "An." \swarrow defim.
- musc.

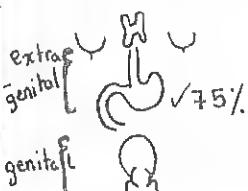
3. (Gynandroblast)

- unilat, small, solid
- yellowish
- varying malig. potential
- pure thecoma, fibroma: bcl-6
-

Secondary

5-20% of malig. tumors

- ovary is a common site for metastasis
- they reach ! ovary by blood or lymph. spread



typical

- ✓ atypical
- (Krukenberg)

Bilat... Solid... Tubular
mobile ... signet ring

Expl. laparotomy

B M

1. Old ≥ 45 \rightarrow TAH + BSO

2. Young

- Cystectomy
- Ovariectomy
- uncomplicated
- well demarcated
- comp.
- destroying ! ovary

TAH + BSO

- LN
- Appendectomy
- infra-colic omentectomy

II III IV - max. debulking
- optimum cytore.

⊕

Chemotherapy

- epith.... CAP
 - carbopl. is less toxic \rightarrow cisp.
 - Adriamycin m.b. removed
 - 2nd line \rightarrow taxol
- germ BEP

S F

1. Sex cord stroma feminizing or virilizing

2. Germ cell

- embryo
- chorioc, dysg.
- EST

B-HCG	S	α FP
+	+	+
+	-	-
-	-	+

Struma ovarii \rightarrow T_{3,4}
carcinoid \rightarrow 5HT

Age.	S	F
childhood..... germ cell		
• CBP \swarrow functional cysts		
Dermoid		
• Postmenop..... epith.		

31

Vulval dys trophy

5%

VIN

50%

Invasive (4%)

20-30 yrs

60-70 yrs

Etiology

Chronic irritation

Autoimmune/met. dis. e.g. DM, achlorhydria

Local factors: chalones (↑-atrophy)

Nutritional def. e.g. Fe, folic, B-complex

Environmental & familial

Control

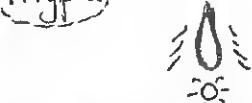
Skin

Psoriasis
D.D.
Lichen planus

irritation

1. Biological: candida, condyloma, d.GU2. Mechanical: pruritis vulvae (scratch)3. Chemical: glucosuria in DMSq-cell hyperplasia
(Leukoplakia)Atrophic
(Lichen sclerosus)Mac. Well defined
Raisedthin, dry, smooth, white
جافة، سميكة، ملساءMic. hyper-keratosis
+ acanthosis
+ papillomatosishyperkeratosis
thin epith.
flat pap.

Atypia

* ch. in FL
reactionKraurosis vulvae
جفاف العجان

Path

(*) Squamous \rightarrow VIN

- Postmenop (HPV-ve) unifocal
- Premenop. (HPV+ve) multifocal

(*) Non-squamous

- Paget (adenoc. in situ) \rightarrow 1-2% adenoc. of apocrine sweat gland
- Melanoma (5%)

Sympt...

→ Asymptomatic

Signs...

→ Change in color (white/pigmented)

P-P-d-d

change in contour (flat, raised)

+ Bleeding

+ Mac. path. \leftarrow ulcer L.N.

Inv.

1 Etiology \leftarrow Swab
GTT2 Diagnosis \leftarrow colposcopic
acetic acid
toluidine blue

3 Comp.... biopsy (definitive)

1. أول حاجة symptomatic \pm ! pdf.

local
- hydrocortisone 1%
- clobetasol 0.05%

local
testosterone 2%

2. أولى تمني follow up

Localized

- * Wide local excision (with safety margin 5mm)
- * local \leftarrow 5% B.FU
dest. Laser
cryo cauter

$\frac{2}{3}$ multifocal
25% recurrence \rightarrow \pm cell. in

Multifocal

Simple
vulvectomy
(skin only)

1. أول حاجة prophylaxis \rightarrow any.... biopsy

Surgery

- Butterfly
- triradiate
- \pm S.C. fat
- \pm ing. L.N.

Radiation

- curative (min. rate)
- adjuvant (postop.)
- \rightarrow LN > 4 or Cloquet
- \rightarrow tumor > 4 or Clitoris

أولى تمني \rightarrow
prognosis: Clitoris? (very vascular)

Staging of vulval tum.

Tumor		Node	Met
I	T ₁	< 2 cm	N ₀ M ₀
II	T ₂	> 2 cm	N ₀ M ₀
III	T ₃	جذع ۳	N ₁ (unilateral) M ₀
IV	T ₄	الجذع	N ₂ (bilateral) M ₁

Vaginal carcinoma

- Secondary.....more common ✓✓✓esp ant. wall suburethral
- Primary..... upper 1/3 of post vag wallsquamous cell carcinoma✓
 - Other rare
 - Adenocarcinoma → on top of Gartner duct (Wolfian remnant)
 - Clear cell adenocarcinoma → on top of vaginal adenosis (DES)

- Spread ⇒ Lymphatic → upper 2/3 (like cervix).....lower 1/3 (like vulva)
- Treatment
 - Radiotherapy ✓✓ radium or cesium ± external pelvic irradiation
 - Surgery
 - Upper 2/3 → Radical hysterectomy + removal of upper part of vagina
 - Lower 1/3 → Radical vulvectomy + removal of lower part of vagina

D.D. of vulva

Radical vulvectomy

* Complications: ✓mortality: 1-3 %

- Artery → hge & shock
- Vein → DVT & p.embolism
- Lymph → lymphedema of LL
- Nerve → paresthesia of thigh
- Skin → infection & necrosis
- Bone → osteitis pubis
- Vulva → disfigurement
- Vagina → dyspareunia
- Urinary → UTI

	ulcers	swellings
Cong.		Dermoid
tr.	! episiot...→ ulcerated	Hematoma
infL	TB + Herpes Syph.	Barth. abscess
Neop.	- Sq. cell cr. - Basal cell cr. (rodent ulcer)	Benign/malign
Misc	- Aphthous ulcer - Behcet S	other swellings appearing at ! vulva

Pruritis vulvae

General disease

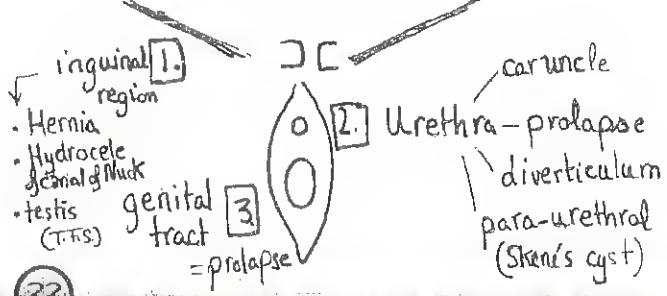
- Livercirrhosis, jaundice
- Kidneychronic renal failure
- Endocrine.....DM, ↑ or ↓ thyroid
- Blood.....lymphoma & leukemia
- Autoimmuneachlorohydria
- Menopause.....senile pruritis
- Psychological.....scratch habit

Skin disease

- Eczema & urticaria
- Parasitic infestations
- Vitamin def

Local (90%)

- Vulvo-Vaginitis →
- Vulval dystrophy/neoplasia



etiology

5-10%

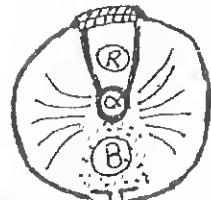
↓
Downward vertical displacement

① PdF.
Cong. Acquired

RUF AVF Jel
weak lig. 3rd/11
nerve ms est. menop
bone est. menop

② PPF.

↑ abd. pr
↑ size of uterus
↑ traction on ut.



Types

1) Uterine

2) Vaginal

ant.
post.
vault

3) Combined

- Thickening
- Stretch
- infection (Tr ulcer)

Pathology
= Kink

urethra: dysuria
bladder: inc. urination
ureter: hydrour.

vessels

congestion
dyschezia

urinary
+ SUI
etc

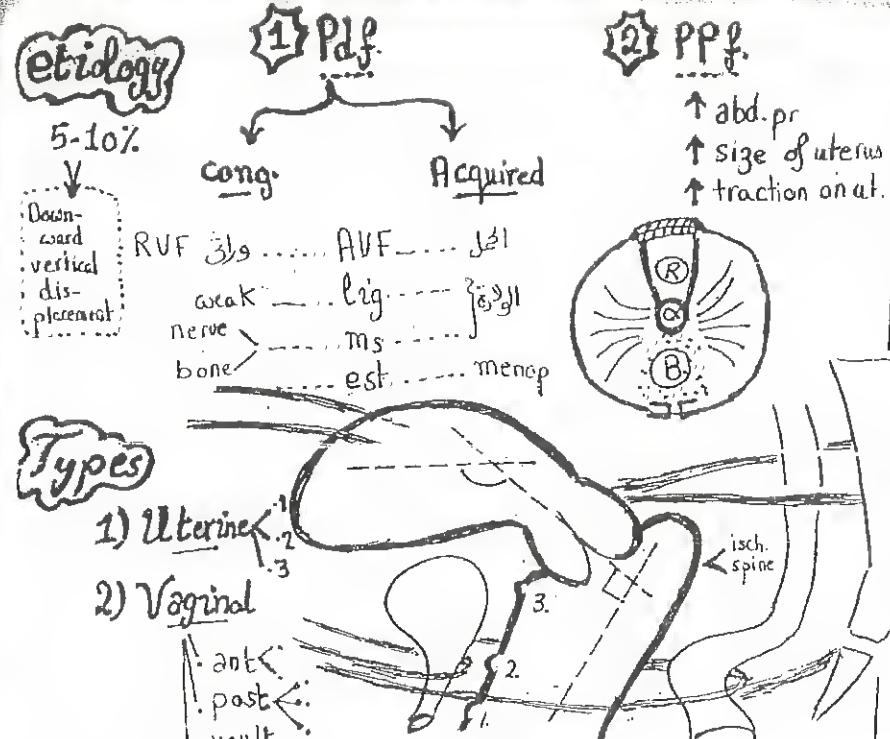
Swelling

rectal

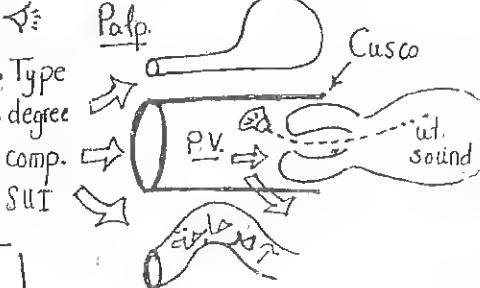
4 D.

pain
cong. sympt.
Bleeding
Discharge

SympT



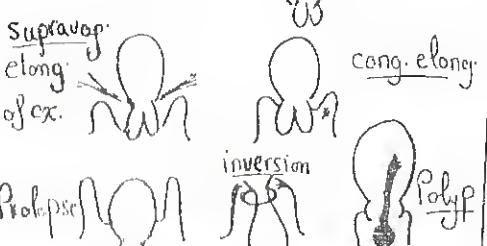
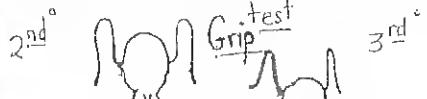
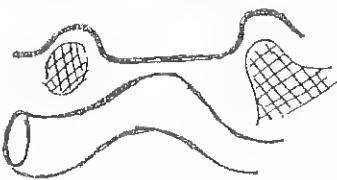
exam General Abdom. association
cause result



2. INR
No need

Routine preop.
+ urine analysis

D.D. Preg.
active AVF
inversion



Palliative indic.

Contraind./refusal of surg.
Congestion (preg., puerp.)
trophic ulcer

methods ① PdF.

② PPF.

- Lig. pessary
- ms. physioth.
- est. ERT

↓ weight
↓ smoking
↓ br. asthma

vag. ulcer
UTI

antiseptics
Premarin cream
silver nitrate paint

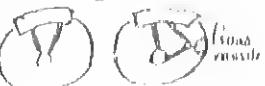
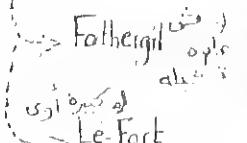
Surgery

1. Preop. care

2. Operations

VH+PFR

Sling



Le-Fort

Marsupial.

1. incision
2. Dissection
3. Plication
4. Removal

3. Postop. care

تحلل انت؟ قذف دار؟

4. Comp. General ^{hge} inf. --- special inf. injury

5. Recurrence 5-10%.

- Preop. Bad
- Operative. Bad
- Postop. Missing

Stress urinary inconti-

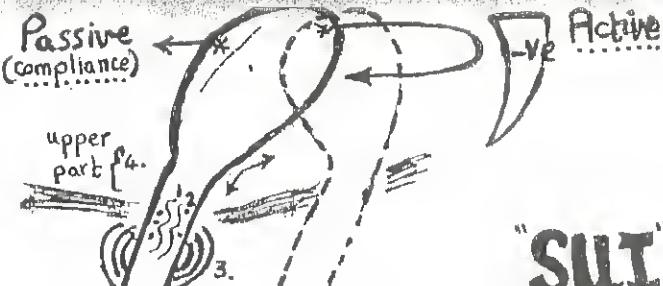
Normal

- involuntary loss of urine
- due to acts of Abd.pr.
- when intravesical pr. is > intraureth.pr.
- In absence of det. cont. ✓✓

31. Bladder 0-20 -ve

2. Post. UVA = 90-100°

3. Urethra 80-100 +ve



Gynecology = D. of the female genitalia

Hamock
5. 'theory'

"DI" idopathic inf. irritation: ✓
Neuropathic

Etiology

intrinsic sphincteric dam. (genuine SUI) 1 damage

Anatomical 2 urethral hypermob

weakness

Acq. Cong. obst. menop.

loss of PUVAs

caused by levator

backward Rot. descent

post. pubo ureth. lig.

obt. ms

ATLA

b

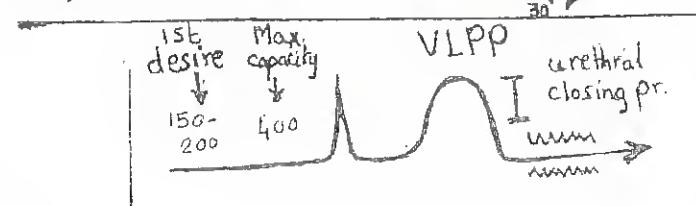
"SUI"

Hist → cough stress test → 'spurt' immediate

Exam. → cystocele +ve → Bonney stress test

-ve → Yousef

Special → Pad, Q tip



+ve spurt on cough

+ve

stream

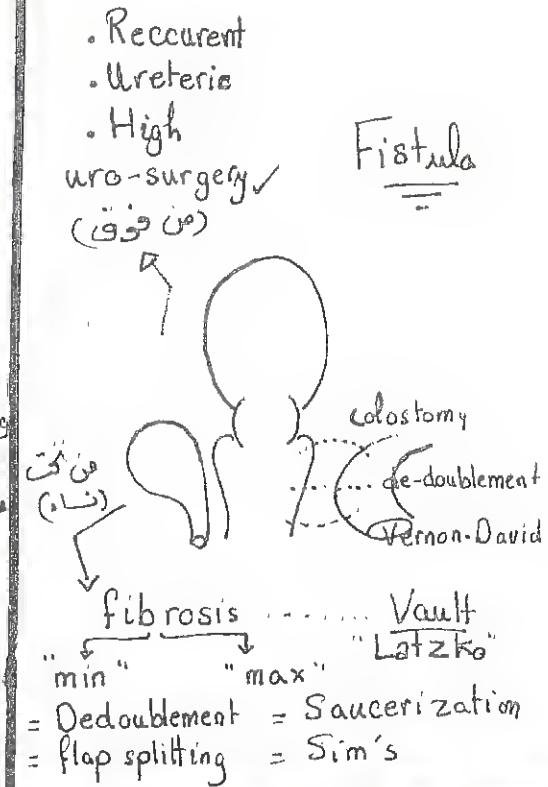
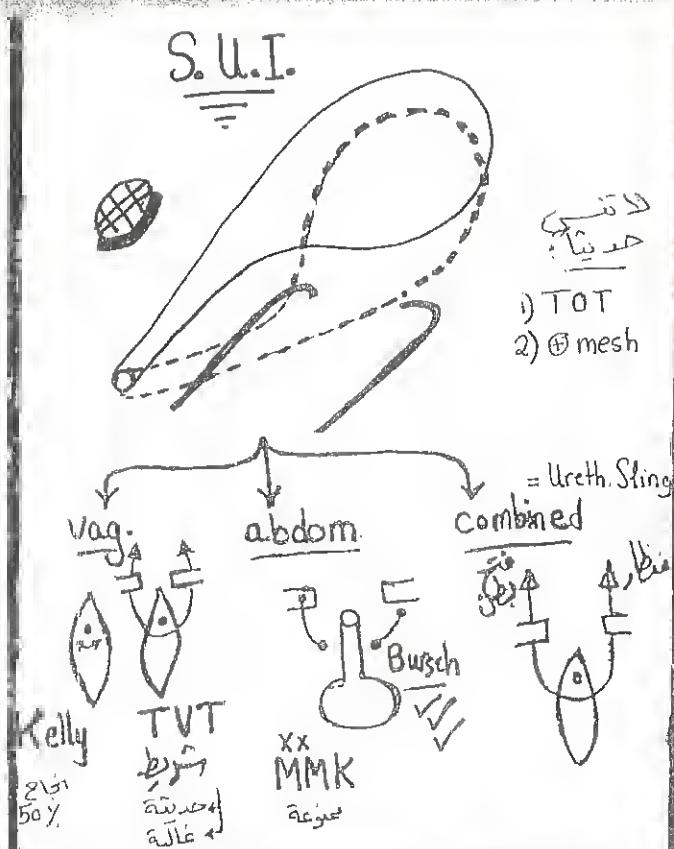
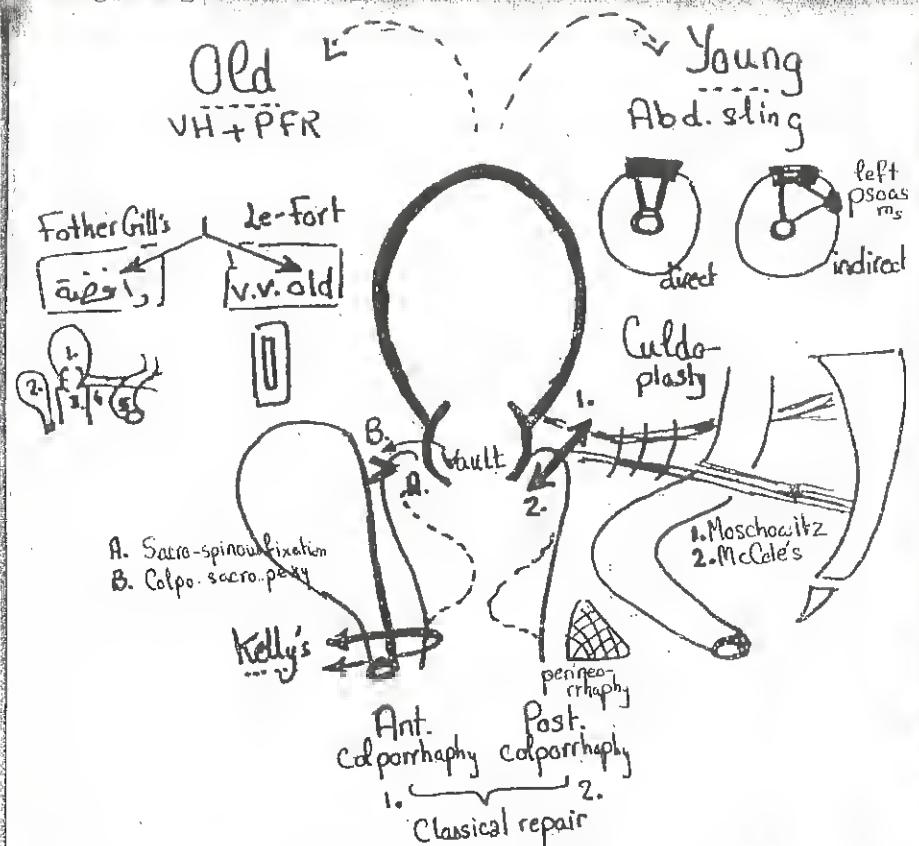
DI → orgasmic
SUI → penetration

stream

residual volume (<50)

+ve

stream



Complications

- Hge**
- Inf.**
- Injury**
 - 1) Sling**
 - 2) Fothergill**
 - 3) Le-Fort**
- int. obstruction**
- left L2 pain**
- possible injury of ureters**
- iliacs v.**
- tear inf.**
- infertility**
- exdyst.**
- PTL \rightarrow PTO₃**
- difficult IC**
- D&C**

Recurrence \uparrow 10%

- Bad**
- Bad**
- Missing**
- Preop**
- Operative**
- Post-op**

Alternatives (conservative)

- for**
- Mild**
- Much**
- Mixed**
- ERT**
- paraurethral implants**
- Kegel's ex...**
- Faradic current**
- vag. pessary**
- vag. cones**

High failure (recurrence)

- Preop**
 - age** ... CBC
 - العمر** ... inf.
- Operative**
 - proper dissection**
 - proper haemostasis**
- Postop**
 - delay IC (3m) preg (3yr)**
 - care of catheter**
- ابحاج**
 - 1) Avoid injury: anatomy proph.**
 - 2) early detection.**
 - 3) immediate repair**
 - 4) leave a catheter**

Amenorrhea

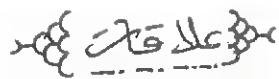
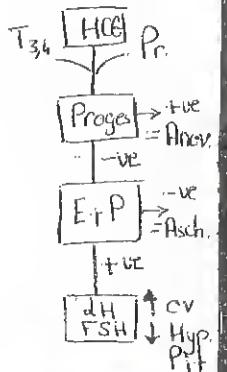
H. P. Ov. Ult

Cong
Tr.
Infl
Neop
Misc.

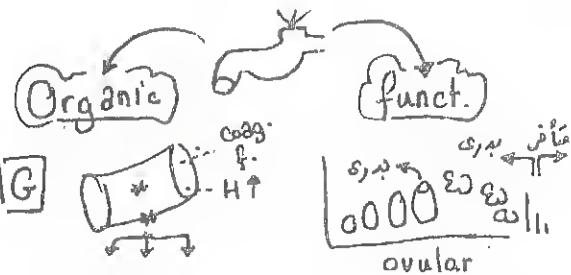
1st 2nd
 (Cryptomen.) (Pregn.)
 1. Turner
2. Mullerian
3. TFS
 1. PCO
2. hyperpr.
3. hyperandr.

general debilitat. dis.
 drugs
 oestr. ↑ ↓

Diagnosis

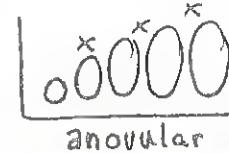


Bleeding



Diagnosis
 Lab scan
 or scope biopsy

1. Cong
2. tr.
3. infl
4. neop
5. misc... prolapse
 6. anovular



E. lab

D&C

Hyst.

Etiology

Cong tr. infl neop Misc

PID --- EØ

fibroid

ch. cervicitis

impat... premat. ej

ch. infection (chlamydia)

1st 2nd
 girl 1 girl 2

Assessment

U/S 1000 E₂₁ Progesterone

HSG... laparosc.

Post coital

Semen

20 --- million/ml

30 --- normal forms

50%... forward mot.

✓ A B C D

Infertility

Amen.

→ + swelling (Crypt)
 → + D&C
 → + irreg. bl. → Anov.
 1) PCO
 2) ↑ Pr
 3) ↑ Andro.

Swelling
 + infect → EØ
 + fever : PID
 + amen. < uterus; V. mole
 < adnex; ectopic

IUCD

→ Amen... pain (ectopic)
 → fever... disch. (PID)
 → pain

✓ PID - JØ
 missed
 BL pain

39

Fibroid

EØ

PID

Ect.

Adrenal swelling

Age

CBP

PdF

↑ E

Sympt.

ABCDE

Sign

3PK

inv

uterus

comp

U/S

Ht

Bleeding

triad

infert.

tender

RVF

fixed

↓

ex motion

triad

infert.

1.

2.

3.

↓

fever

amen

triad

infert.

1.

2.

3.

↓

fever

amen

كمل
يقرئ
ج

U/S
ج

Swelling

Endomet

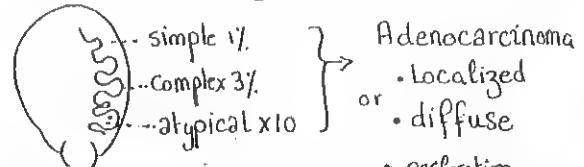
1

1. Age

>60 (related to E₁) white
low parity

2. Etiology

unopposed ... menstr ccc
hyper "E" ... endogenous
... exogenous



Path
mac
muc.

3. Spread

mainly direct
spread
may be by lymphatics

Post menop. bleeding (however atr. end. polypi are commoner)

GCS.... Obese + D.M. + HTN
A. only if pyometra or associated fibroid
L. small uterus + myohyperplasia

4. C/P

Sympt
G.

urinary
only if pyometra or associated fibroid
small uterus + myohyperplasia

5. Inv.

TVUS.... 4-5 mm
Biopsy
upward perf....
Biopsy
upward perf....
& peritonitis

hysteroscope
Pipet

upward perf....
& peritonitis

Surgical staging

I TAH + BSO
II +
III w/ Tele + brachy

IV best : early presented : Ia grade I

Cervix

3

CIN 35-40 5-15 inv. 50 (multipara)

18 yr
SI multiple part.
uncircumcised STD HPV HIV

Sq. cell cr.
1. Nodule
2. Caulif. mass
3. ulcer
4. infiltrat.
10%
Nodule ... barrel shaped
Cervix

adenocarcinoma
1st relay
cx, ureteric
parametrial
2nd iliac
3rd Paraortic

Contact bleeding

uremia
Pyometra
Suspicious cx

Pap smear (Ayre's wooden spatula)
Colposcopy ... biopsy punch, colposcopic
Cone, LEEP

Uremia

Clinical Staging

Ia₁ ... simple hyst.
Ia₂ ... extended
Ib ... Radical
(Wertheime)

Radiotherapy

40

Ovary

2

G1st 20% < 40 ... 60 > 20% (low parity)

Aging fam. & genetic ovulation
BRCA Lynch II ↓ by C.O.C.

(Non-neoplastic)
Funct. +
30-50%
Parovag. Theca lutein
preg. luteoma
Common epith. germ sex cord
2nd 2nd
= Kruken

mainly seedling = implantation
transcoelomic

Vague ... 3d dyspnoea
discomfort
distension
± BL ± amen.
congestion
secondaries
- estrogen
- androgen
- cachexia
- destruction

H-effect < thyrotoxic
virilization
Ascites ... omental cake ... sister M. Joseph nod.
Adnexal ... pelviabd ... U.V. pouch ... D. pouch swell

Periodic exam.
difficult tumor markers
TVUS + Doppler

Exploratory laparotomy
1. Surg. stag.
2. Biopsy
3. H.T.

int. obstruction...
TAH + BSO
omentectomy
L.N.
optim. debulking

Surg. Chemoth.
epith... CAP
germ... BEP

! worst : late presented : III

Scheme (Swellings)

Adeno-myosis



- Cullen's theory
- Deep glands (Horm. insensitive)
- Size < 12 wks
- C/o.... bleeding
- Ht < med. x surg. ✓

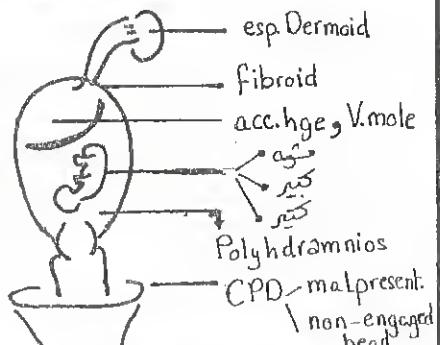
+ Amen.

- Preg / pseudocyesis
- uterus ↗ cryptomen.
- Pyometra, hematometra
- tube.... encysted TB perit.
- ovary... cr. ↗

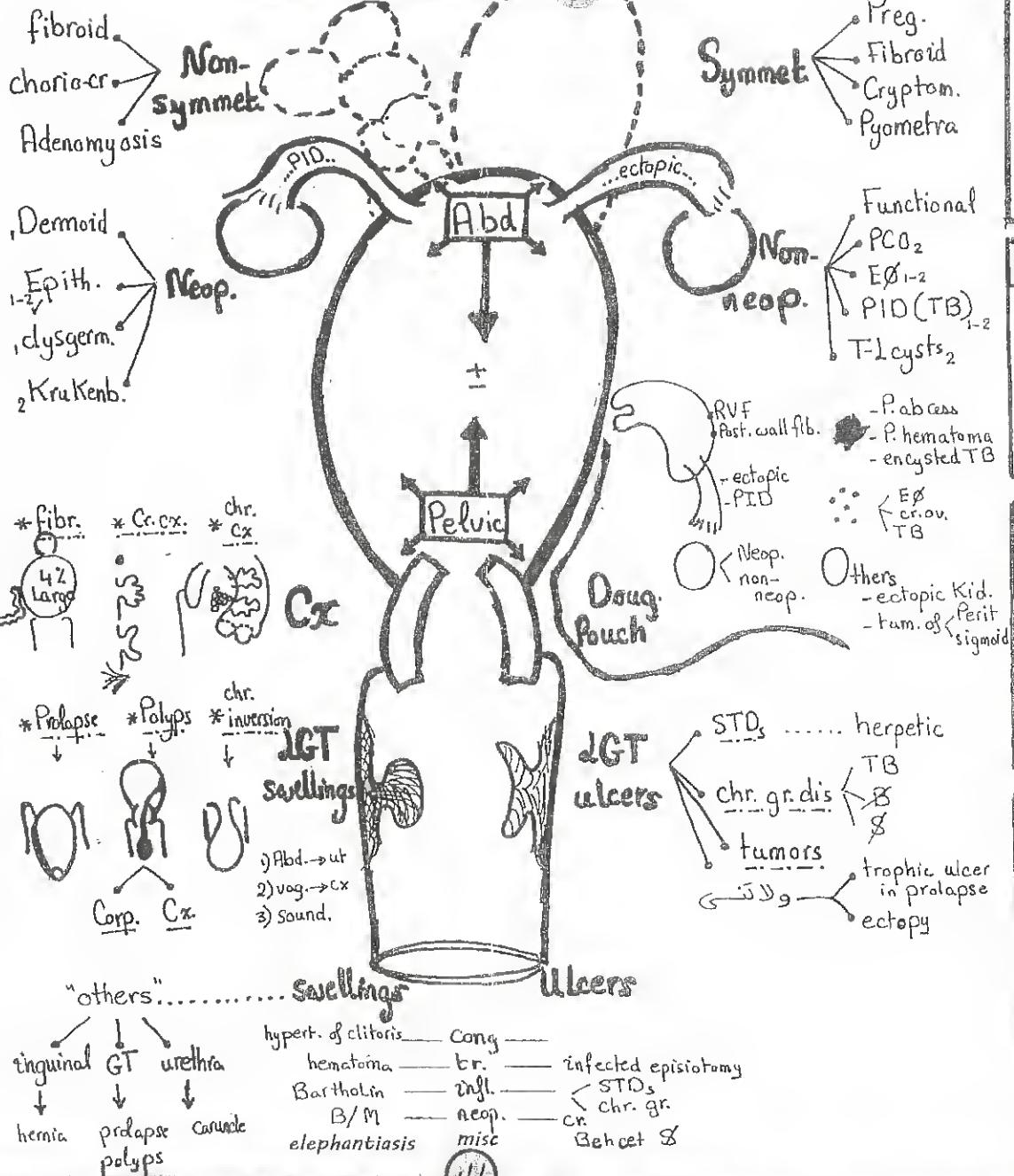
+ infert.

- uterus.... fibroid, adenomyosis ?!
- tube.... PID, TB
- ovary.... neop → Dermoid ?!
- non-neop ↗ PCO

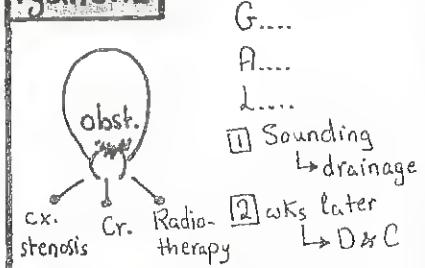
Preg. + Swelling



Swellings



Pyometra



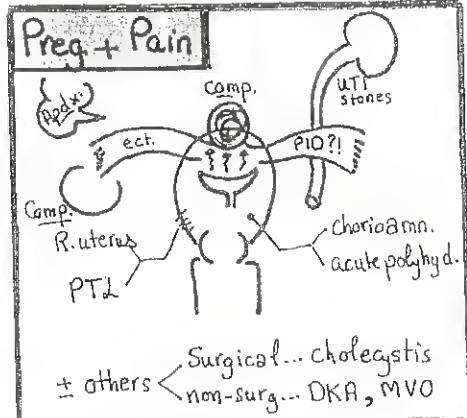
+ Bleeding

- Preg.... comp.
- uterus ↗ fibroid
- tube.... large TO complex
- ovary.... cr. ↗

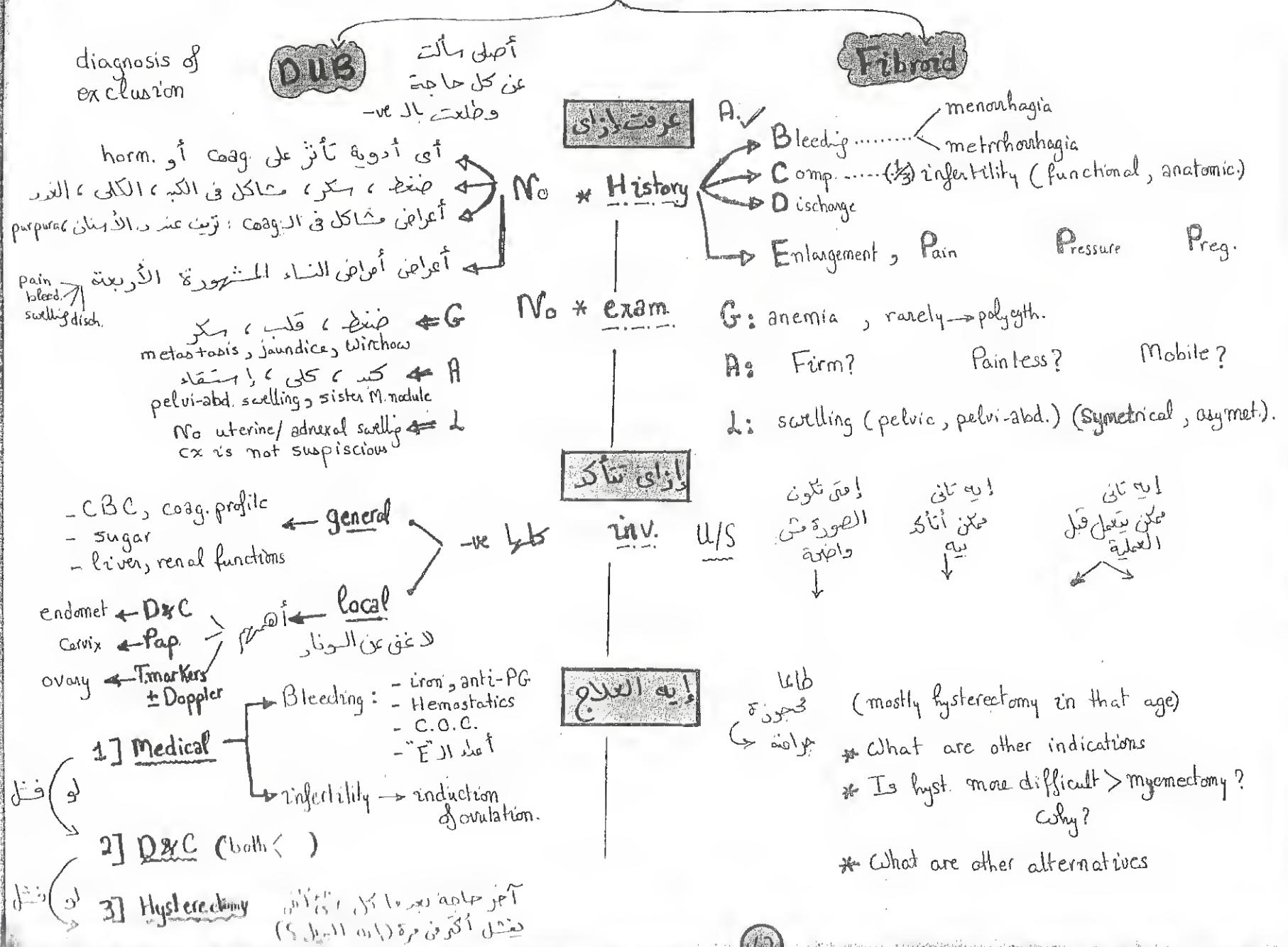
+ pain

- Preg.... comp.
- uterus.... comp. fibroid ↗
- tube.... acute PID, pyometra
- ovary.... comp. swelling "THRIM-PR"

Preg + Pain



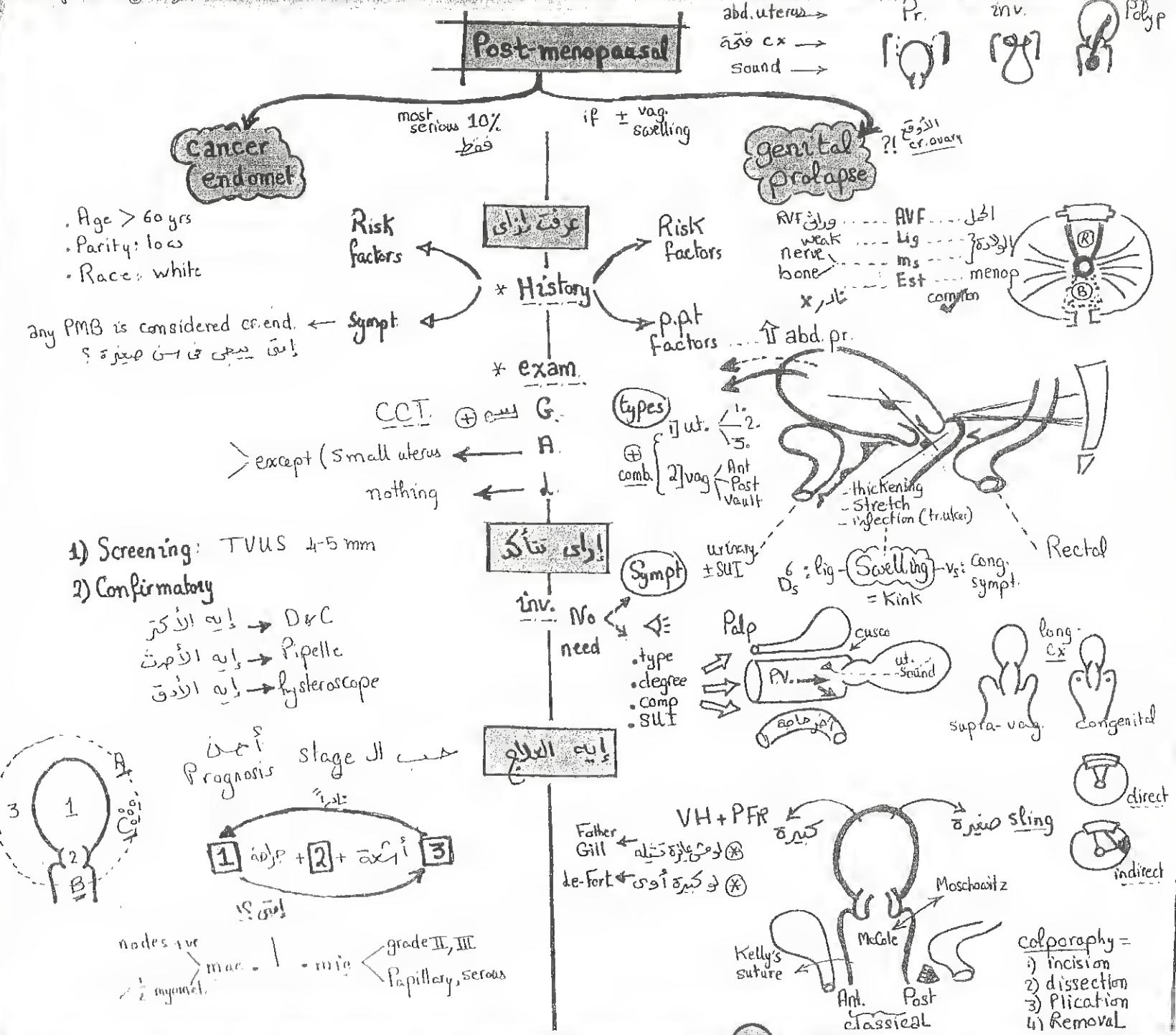
for investigations.....
most probably



1) على الذهاب
الزمني 19
البورة (1)
menorrhagia
دورة طويلة
أو متسللة
metorrhagia
دورة ملتفة
polymenorrhea
متعددة في التحرر

2) الترتيب

Amount
تقريرها عن عدد النزيف
= napkins
وأذابه
Soaked, stained
عفافة مع
Clots
= severity
Coitus
= contact bl
bl. from other sites
= general cause
effect on g. condition
tnt received



متى يمكن يكون
السيد حاجة دائمة؟
↓
. Yes.

- 1) ~~Dysfunctional~~
- 2) other tumors
 --- cr. ex
 --- cr. ovary
- 3) HRT
- 4) Atrophic v. vaginitis
 most or/ senile endometritis

⑤ Uterine polyposis

<u>Corporal</u>	<u>cervical</u>
1. Fibroid	1. Fibroid
2. Adenomatous	2. Mucous ✓
3. Malignant	3. Malignant
4. Placental	4. Granulomatous

* C/P for all

- Bleeding
- Pain
- Discharge

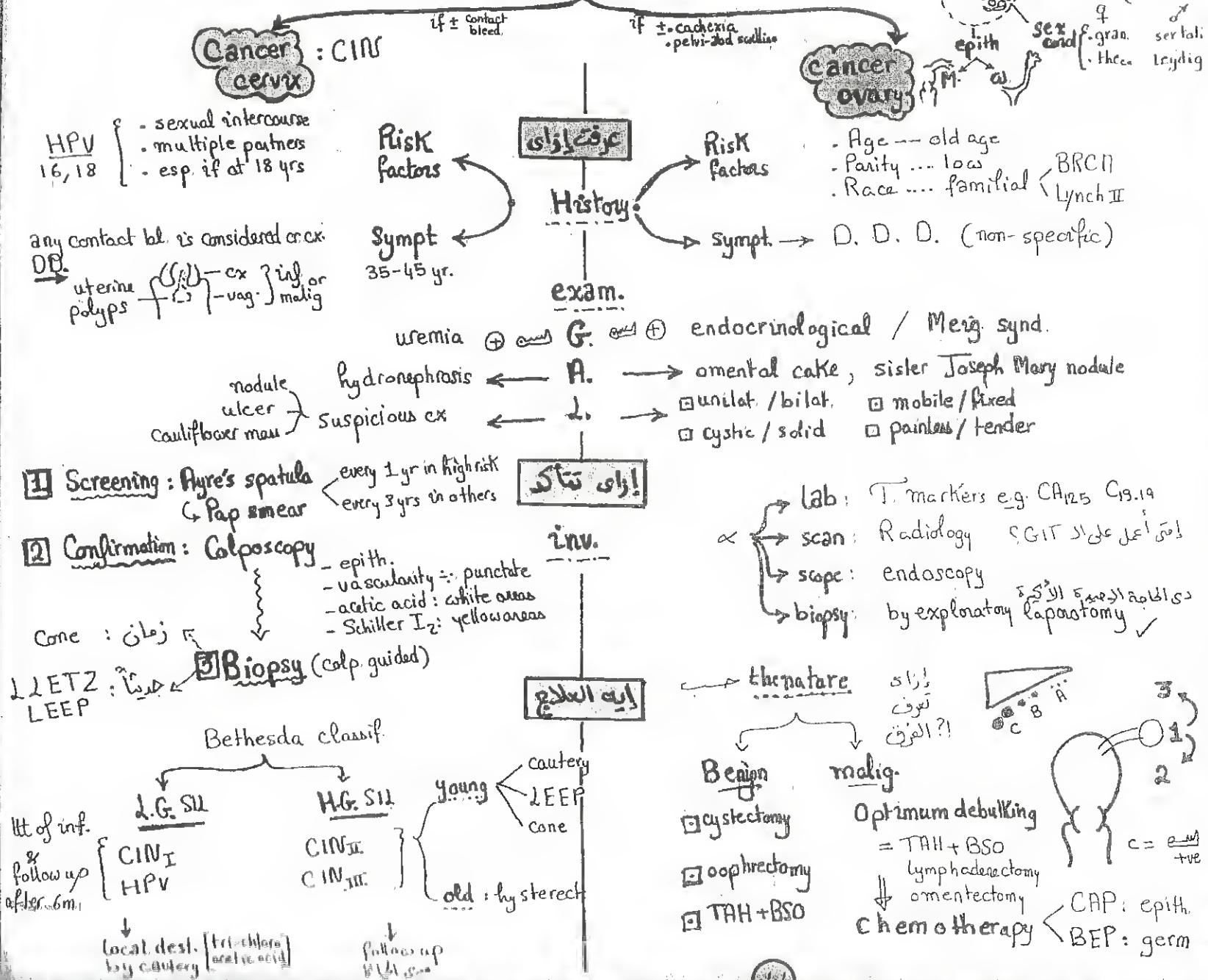
* It's all

- Polypectomy ± D&C
- send for histopath.

* How to differentiate
bet. them

- uterine sound ✓
- U/S
- hysteroscope
- HSG

Other Tumors



organism Mycobact.
Route 
 tuberc. > bovis
 (chuman)
 • blood borne (lung)
 • Peritoneal
 • lymphatic
 • ascending e semen

Pathology . Tuberclles
 . caseation
 . Polypi
 . Ulcers ✓ 25

C/P

.....

100%... PID

50% menst bleeding
irreg. amenorrhea

5% Polyps ... ulcers

5% Pelvi-abd swelling

5% Night, Loss, cachexia

① Young & infertile

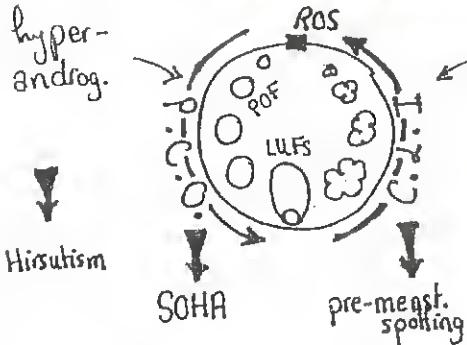
- medical $\text{Ht } 6-9 \text{ m}$
- if failed \rightarrow salpingectomy & ICSI
(no tuboplasty)

② Hysterectomy

- old age
- large masses
- ulcers, fistula
- irreg. bleeding

CBP

Anovulation



All may lead to)

Amen.

B-HCG
T_{SH} → prolact.
Prog. ch.
E & Pr. ch.
LH, FSH

Bleeding

TSH → prolact.
Prog. ch.
E & Pr. ch.
LH, FSH

1st exclude

- organic
- gen.
- local
- obst. gyna.

then

- Ovary: PCO... U/S, LH/FSH
- Tube: PID... HSG
- Perit: Ect... Laparoscopy
- Utr: Aschem... hysteroscope
- cx: infect... C&S

إذاي تفاص

إيه العلاج

عاجل العيب

1st 2nd
تني تفاص
الكتل

Fe + Anti-PG

Horm. D&C
Hyst.

induction of ov.

tubo-
plasty
ART

if ± swelling

fibroid

pain + bleeding
submucous

الكتل حمل
كتل

Bleeding: ↑
Swelling: ↓
infertility: ↓

anat. funct.

إيه أنواع
؟ degen.

- [2] جو
- [2] او
- [2] ج
- * fatty
- * calcif.
- * red deg.
- * atrophy

العلاج في النسرين
• Polypectomy D&C
• Myomectomy

How to ↓ bleeding.

raise Hb%
LH-RH
Post- menst.
Arteries < ut.
fibroid: vasopressin
incisions: ant, midline

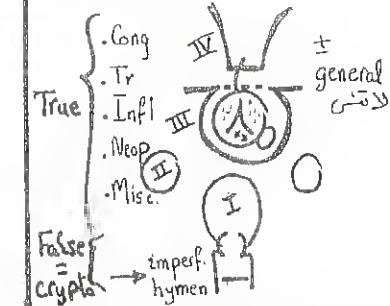
Bonney و JF

- clamp
- screw
- Hood operat.
- elevation test (SUI)

↓ خميرة
& amenorrhea

Phys. < 12 > 45

Path



1] Uterus Absent

- Mullerian agenesis
- Test. Fem. Synd
- test. no abn level

2] 3 breast Absent

- E. = Hypogonadism
- Hyper-Gn Hypo-Gn
- Turner = cong. & Hypoth, Pit

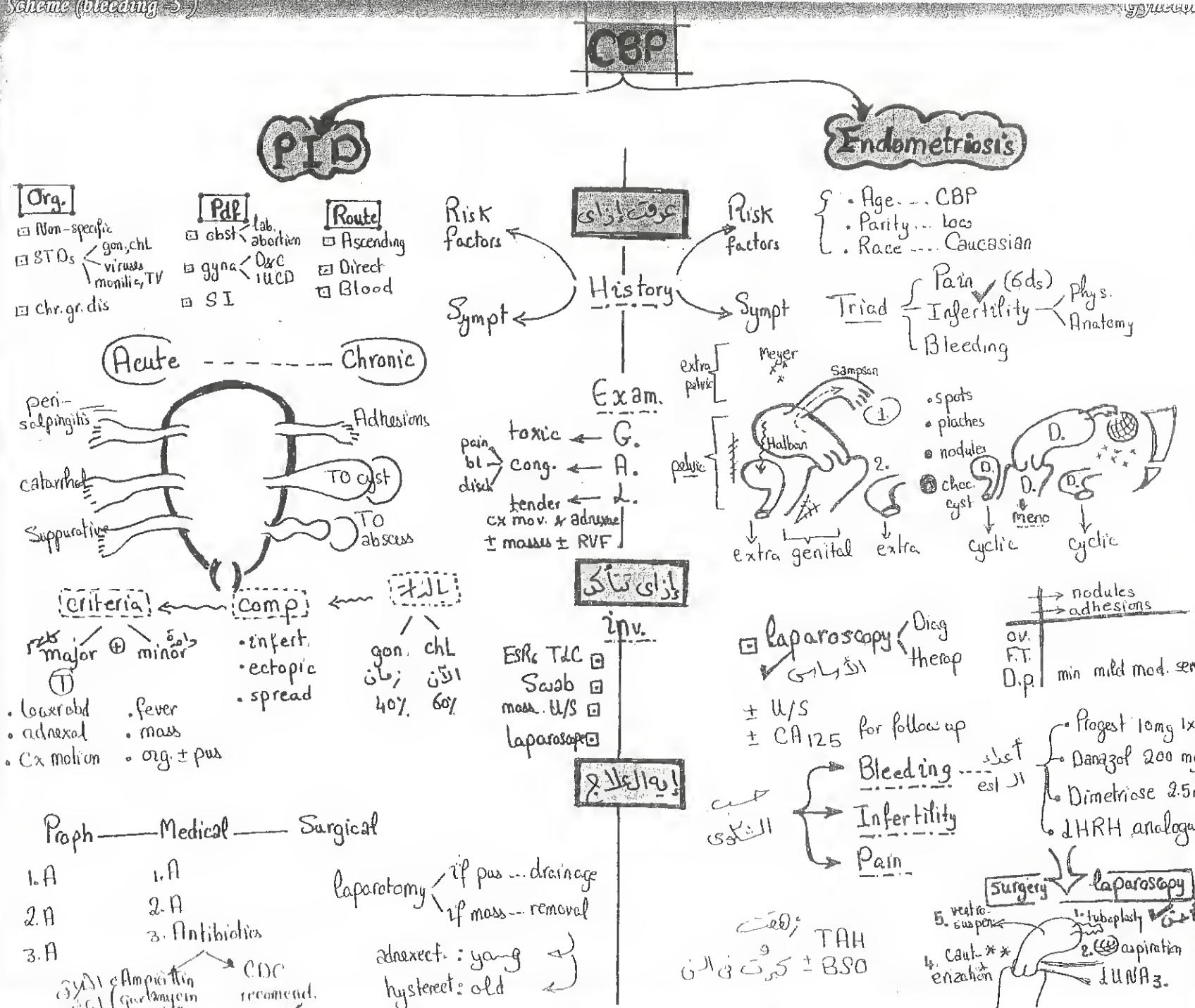
3] Both present

Acquired causes

- PCO
- hyperprolact.
- hyperandrs.

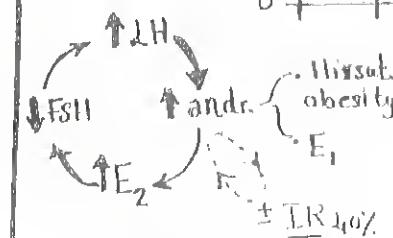
④ cryptomen.

4] Both absent cong. engy definition



مثلاً يمكن يكون
البيت مادة ذاتية

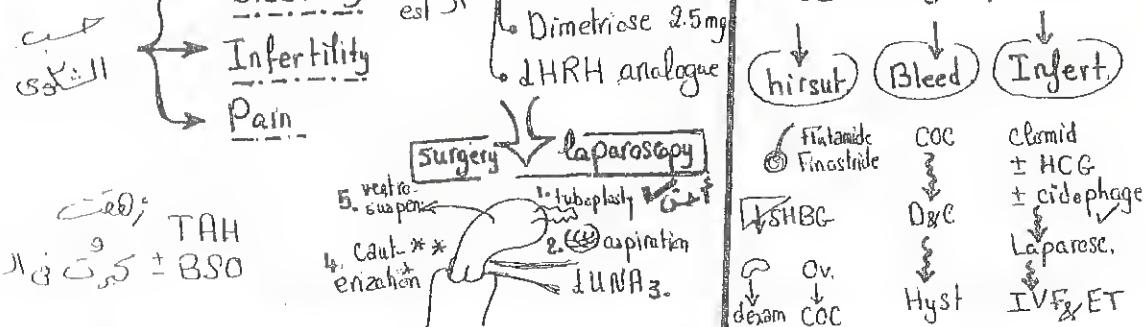
- 1] Cong. xx
- 2] Traum... IUCD
- 3] Inflam PID
- 4] Neop < ^{B...fib, polyP}_{M...cIN}
- 5] Misc \ Prolapse
Anovulation
e.g. PCO



Rotterdam criteria

C/P... SOHA
 U/S... Adam (necklace)
 Inv... LH/FSH 3:1
Andr†

العلاج حب الشوى بـ
ـ لازم لـ الـ الـ



Cases

Keyword:
Amenorrhea

Amenorrhea

إنسيل

Cyclic pain
↓
crypto-menarche

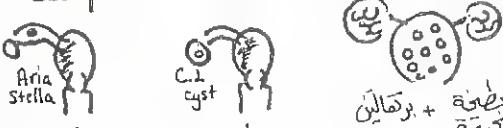
+ve br.
↓
M. agenesis

-ve br.
↓
Turner

عامل

B-HCG +ve

Pain
Triad: amen.
ectopic abortion
V. mole



كثير

40%
infertile
↓
Anovulation

40%
+ hot flushes
↓
POF

40%
+ hot flushes
+ RL. pain
↓
menopause

C/P

- Pelvi-abd swelling
- Normal looking ♀
- Bluish bulging memb.
- . Tall
- . well develop breast
- . No axill. hair
- . Short
- . Webbed neck
- . Cubitus vulgus

dist. undist. thr. inevit.

↓ collapse

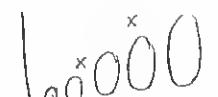
+ cx motion tend.

mild pain + spots

↓ severe colick

+ cx opened

- high FL
- No fetal parts
- bilat. TD cysts



D
i
d
C
I
A

+ bleeding

HPO axis
↓
anovul. ↓

uterus
↓
↓

↑ FSH
DEXA
LDL, HDL

I.v.

clinically
diagnosed

U/S
Absent uterus
"T"

↓
normal
2-8
ng/dl

↓
male
300
ng/dl

Karyotype

FSH ↑

"hyperGn."
hypogonad

HRT

"gonad-
ectomy
if mosaic"

Laparotomy

Amen... bleed.
(short)

U/S
snowstorm

HCG
high

chest
x-ray

serial
TV-U/S

B-HCG

±
laparoscopy

SOHA

galact.

hirsut.

Patterson

criteria

N:

N:

2-20

2-8

0.2-0.8

HRT versus

- . SERM
- . Tibolone (liveral)
- . Agreat
- . Bi-phosph. (foscamax)

III

cruciate
incision

Vaginoplasty

↓
surrogate
mother
!!
gonad-
ectomy
at 18 yrs

Miscell.

Post

parfum D&C

Sheehan Asherman

- 1.
- 2.
- 3.

+ Acute abd

Acute abd
dist.
ectopic
(funct.)

Comp.
in. cyst
(funct.)

+ bleeding

HPO axis
↓
anovul. ↓

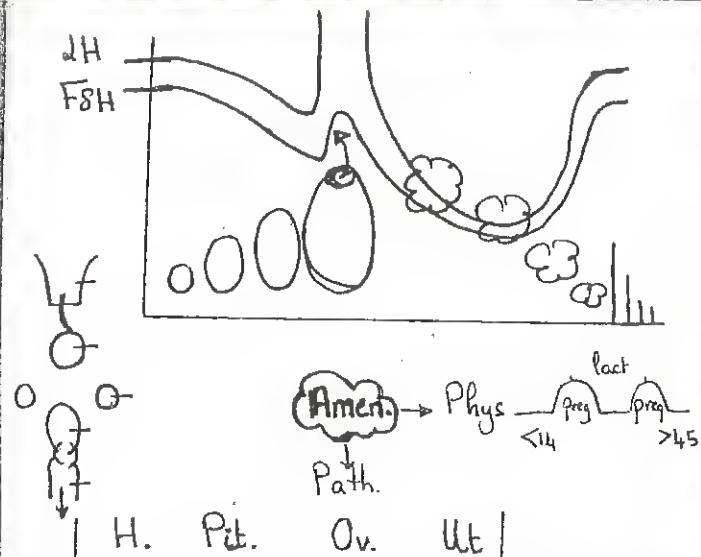
uterus
↓
↓

+ swelling

Pregn.
↓
crypt-
menarche

ov. swelling

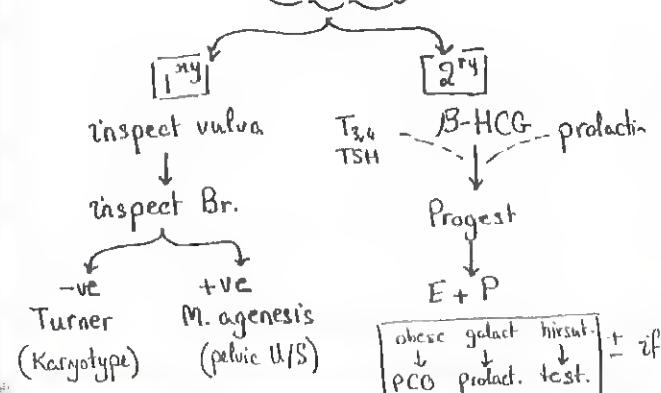
Amenorrhea



Cong.
Endom.
Infl.
Neop.
Misc.

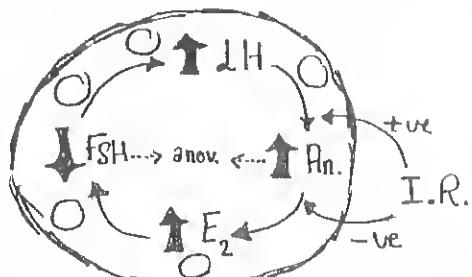
④ general drugs
endocrine
gen. debilitat.

evaluation



PCO

Def.: It is a synd acc. by SOHA



Diag. C/P + Inv. + U/S

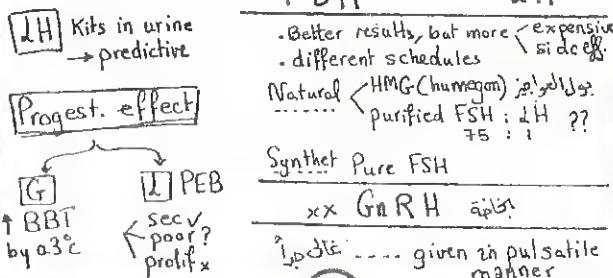
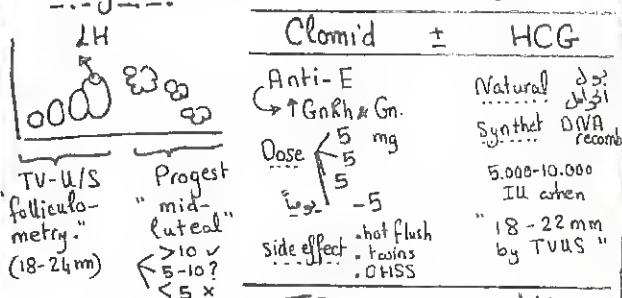
S. O. H. A.

LH/FSH > 2
↑ androg.
IR

Necklace ap.
Adam's fio
N. in 25%



Diagnosis

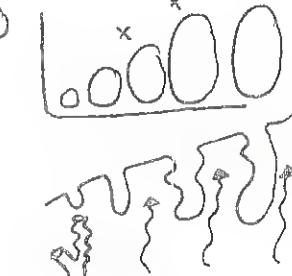


Bleeding

Organic

G
coag. f.
Horm.
obst.
gyn.
congest.
cong: double ut.
tr: IUD
infl: PID
Neop: Bx or DF
Misc: contracept.
- Prolapae

Dysfunct.



Diagnosis

History
age
marital st.
menst < reg.
contr.
Past

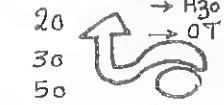
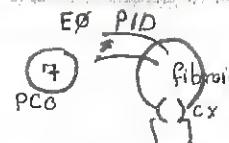
Exam. G.... A....

Inv.
α
Scan: U/S
scope
biopsy: tumors

Drugs
medical
hormones
hemostatic
anti-fibrinolytic
anti-PG
menst. irreg. progest, COC
contr.... COC mirena
infert.... ind. of ov.
synth. andr.. danazol
GnRH in cont. manner
D&C...
hysterosc. end. ablation
hysterectomy

14. funct. ov. cyst
20. menst irreg.
24. Infert.
26. PCO
30. unapp. ↑ E. *fibroid * Eo * Polyps
40. Peri.MB (DUB)
45. End. hyperp.
60. End. cr.

Infertility



If any failed \Rightarrow ART

D.D.

etiology

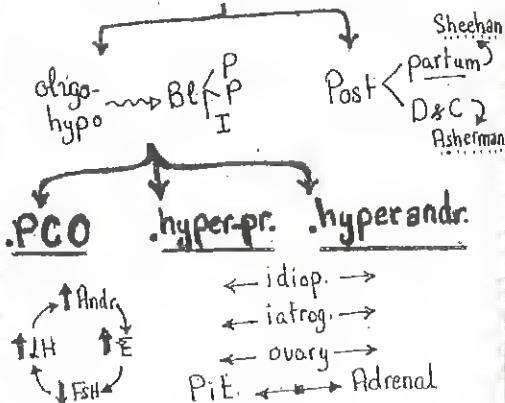
History

Exam

Inv.

Att.

Amenorrhea



S... Galact. hirsutism
O... \pm PMT \pm viriliz.
H...
A... \hookrightarrow Anovul. \leftarrow

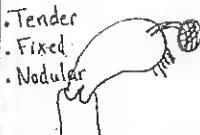
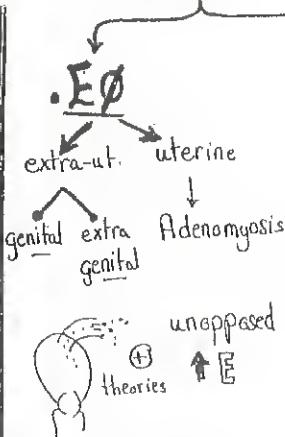
Bilat. adnexal swelling Squeeze \downarrow breast midline sexual hair

1) H/S 2) LH/FSH
3) \uparrow Andr
3) Anov.

Prolactin \leftarrow 30... PCO
 \leftarrow 200... CT brain
 \leftarrow Anov.

Cidophage (oral hypog)
Parlodol (hormone)
Androcure (cyprost. acetate)
 \downarrow induction of ovulation

Pain



liveroscopy
 \pm biopsy

masses, adhesions
 \uparrow +ve \downarrow -ve
surgery induction

Swelling

Adnexal Neop x Non-neop \leftarrow E \emptyset PID PCO

Uterine Fibroids Polyps \pm disturbed phys.

A B C D E P P P

swelling Pelviabd adnexal Br. lig. D. pouch

U/S. \pm HB%. IVP

Myomectomy

49

Bleeding

Menorrhagia E \emptyset PID fibroid

Pre-menstr. spotting = C & I

E \emptyset hyperand hyperpr. Lukolipids sec. end

1) Non specific
2) STD \leftarrow virus chlamydia
3) chr. granul.

1 sympt ... PM spotting

2 comp ... habili. ab. infertility

3 inv ... BBT
 \downarrow Progest 3-12'
 \downarrow PEB lag 2-3d'

inf. \downarrow infertil.
TLC, ESR
C/S

Progest in 2nd 1/2
HCG day 14
Proper induction

Cx. motion tenderness \pm CO

inf. \downarrow infertil.
Post-coital te

Anti-biotics
cauterization
AIH

Discharge

lower abd : PID

backache : CO

1) Non specific
2) STD \leftarrow virus chlamydia
3) chr. granul.

- fever
- backache
- discharge

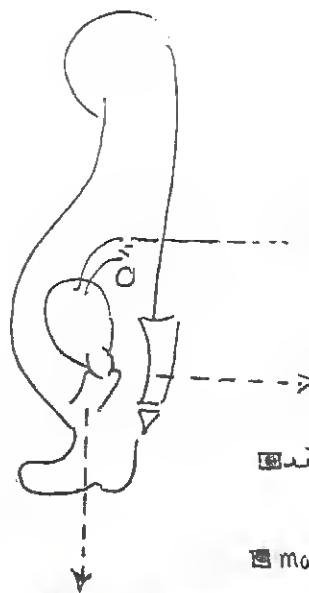
Cx. motion tenderness \pm CO

inf. \downarrow infertil.
TLC, ESR
C/S

Pain in Gyna

مع الكل
للتنهى

- 1] Idiopathic
(psychogenic)
- 2] Non-gyn
- urinary
- intestine
- Musculoskeletal
- surgical → medical
- 3] Early preg:
Comp. وهمية
مش عارفة
e.g. ectopic



212) جنون الظهر Pelvic pain :-

Local Backache

- شد في الظهر السacro-uterine
e.g. Prolapse
- ex esp. chr.

- المسار فيDouglas pouch
e.g. Eos
- ex fibroid

- Superficial: vulvag.

- Deep: lesions in D. pouch

Dyspareunia

Acute

- Ovary ... if complicated
- Tube ... acute PID
- uterus ... comp. of fibroid

Chronic

- PMT
- cyclic Dysmen.,
cryptomen.
- acyclic (causes of p. eng.)
- Traum IUCD
- Infl chronic
- Neop B... M
- Misc.... prolapse

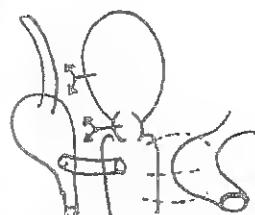


:= nodules
masses

Genital tract traumas

1) Surgical

- Incision \leftarrow dehiscence
Keloid
Burst
- Vs hge
- Ns Paresthesia
- Organ.... loss of funct.
- Viscera ... adhesions
fistulas



2) Direct

- القذف Burns
accidents Stabs

- الاصطدام - Foreign bodies

- العصا - Circumcision
 - 1) clit.
 - 2) + L. minora
 - 3) Sud anenese
 - 4) un-classified

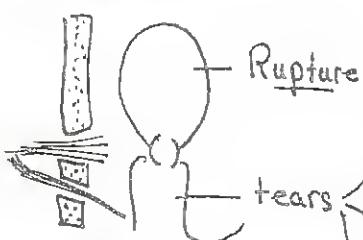
- الخداع - sexual abuse

- لا تنسى
Contraception
IUCD
- PID جنون
missed
- Ring Vag.
Pessary
if neglected

3) Obst

(! commonest)

Mother



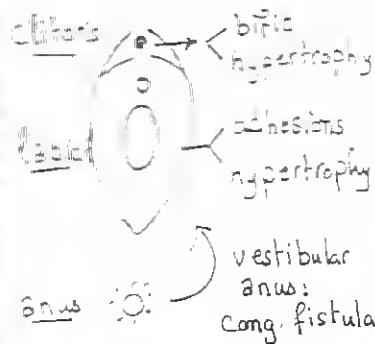
Rupture
tears
Prolapse
fistula
in cont.

Fetus

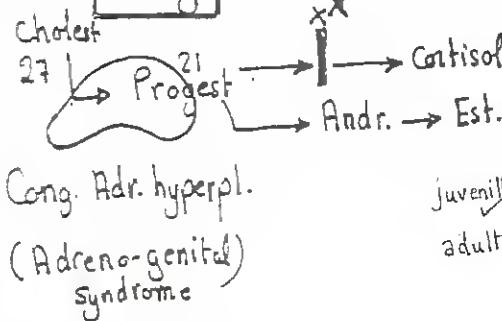
جوانب نظرية (201
صورة 202)

- 1) Head
- انتفاخ
cephalhem. cr.
& caput succ.
- 2) Musculo skeletal fractures
- 3) Periph. nerve
- Klumpke's
- 4) Soft tissue ... Rupt. spleen

Discuss Child "hood" Gynecology



Cong.



(etiology) def. eng. \downarrow 21 hydroxylase
 \downarrow 11,21 hydroxylase

\downarrow deficient synth. of cortisone \downarrow
 hyperplasia \downarrow \uparrow ACTH \downarrow
 \downarrow \uparrow synth. of androgens

juvenile
 adult
 (types)
 C/P
 Inv. \uparrow 17 α OHP

- Sexual abuse
- accidental trauma (F. body)

Traumatic

- circumcision
 - type I: clitoris
 - type II: + labia minora
 - type III: + labia majora (Sudanese)
 - type IV: unclassified.

Inflammatory

Due to absent "E" \downarrow thin vagina.
 \downarrow decreased acidity.

- Cong.... cong. fistula, ectopic anus \rightarrow parasites
- infl... transmission from adults \rightarrow STDs
- traum.... acc. FB in vag. \checkmark \rightarrow non-specific
- neop... sarcoma botryoides

\downarrow 1st [1st]
 \downarrow 2nd [2nd]
 chemical irritation: diaper rash
 \rightarrow poor hygiene:

Neop.

Sarcoma botryoid

- Grape like
- occurs in 1st 2-3 yrs
- Aggressive

Dysgerminoma

- malignant
- esp. if dysgenetic gonad
- secretes HCG \approx pr. pub.

- Endodermal sinus tumor
- very rare
- aggressive
- secretes \approx FP

Germ cell tumors

Miscell.

Precocious

Types

- incomplete
- complete
 - true (central)
 - false (periph)
- heterosexual

Inv.

- Horm. profile: Est., and LH, FSH
 $T_{3,4}$, cortisol

- Radiology
 - x-ray hand
 - CT. brain
 - pelvi-abd US

- Ht: acc to cause

Delayed

14 yrs without 2nd Scc

16 yrs with 2nd Scc

No menarche for 5 yrs after thelarche

H.

P.

Ov.

Urt.

Cong.

HypoGn
 hypogonadism

\downarrow
 FSH
 $< 15 \text{ mIU/ml}$

HyperGn
 hypogonadism

\downarrow
 FSH
 $> 30 \text{ mIU/ml}$

NormoGn

\downarrow
 U/S

Manifestations Of ♀ G.T. anomalies

① Introduction

♀ GT is developed from various origins

- The ovary is developed from 1. urogenital ridge
- The tubes, uterus, cx, upper 4/5 of vag. : Mullerian duct
- The lower 1/5 of vagina & vestibule : U.G. sinus
- The ext. genitalia
 - clitoris : G. tubercle
 - L. min. : G. fold
 - L. maj. : G. swelling

② Classification

anomalies may occur in 1 following organs

- Vulva : Ambiguous genitalia, labial hypertrophy, adhesions
- Vagina : Absent (as in M.agenesis) → imperforate hymen
- Cx : Patulous int. os, cong. elongation
- Uterus : Absent, hypoplasia, fusion defects
 - septum
 - bicorn., unicorn.
 - rudiment. horn
- tube : Hypoplasia, accessory ostium, divert.
- ovary : agenesis, dysgenesis (Turner \$).

③ Manifestations

Cynecological

- Newborn: Ambiguous genitalia
- Puberty:
 - 1st amen. : False: crypt. (imp. hymen, Tr. vag. sept, cx. atresia)
 - true : 1. Turner
2. M. agenesis
3. TFS
- Adolescent:
 - Menorrhagia } Bicornuate
 - Sp. dysmen.
- C.B.P.:
 - infertility : ov. dysgenesis (Turner), Mullerian agenesis, tubal anomalies
 - dyspareunia : vag. septum, cong. elong. of cx
- Old age:
 - Dysgenetic gonads: Dysgermin. tumors
 - Vag. adenosis : DES

Association:

- Renal 30% ---- IVP ✓
- Skeletal 15% ---- X-ray

Obstetrics

Most anomalies are asympt. & its 1st presentation may be during pregnancy

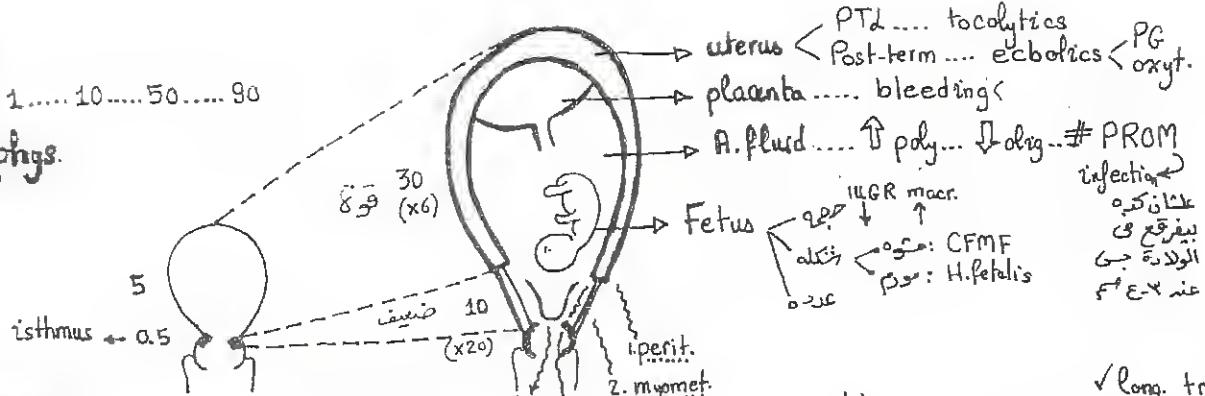
- * Early preg.
 - cx : Patulous os
 - Habit ab. < ut : sept., bicorn. (± PTL)
 - Ectopic < tubal anomalies
 - rudimentary horn
- * late
 - Malpresentations (Breech, Tr. lie)
 - due to abnormal ut. cavity
 - altered accommodation
- * labor
 - Prolonged } malpresent.
 - Obstructed }
- * PP
 - Fr.onic :- 0⁺ 8/
 - Retained pl :- pl. accreta.

OBSTETRICS

Def.

% 1 10 50 90

Pathophys.



Etiology

idiopathic, iatrogenic
> 50% بحسب

Types

Mother, fetus, local

C/P

G: anemia/shock
E: P.V. (not done if < ROM bleeding, done mainly at 37 wks to assess labor)

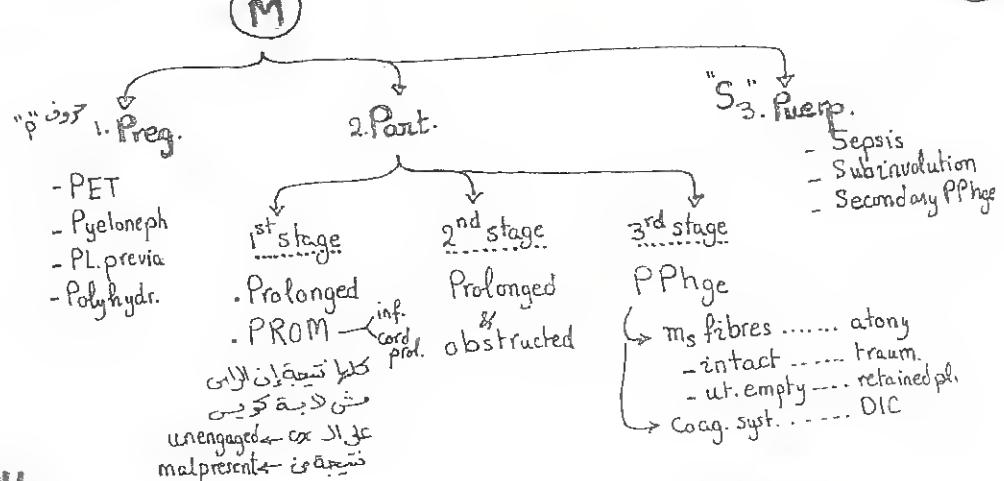
D.D.

Inv.

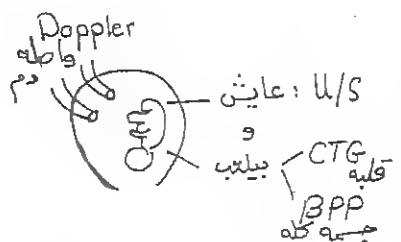
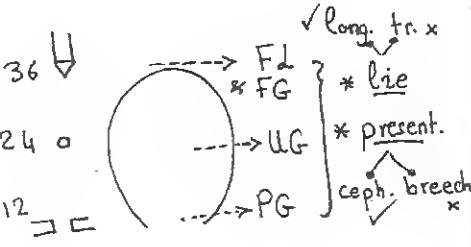
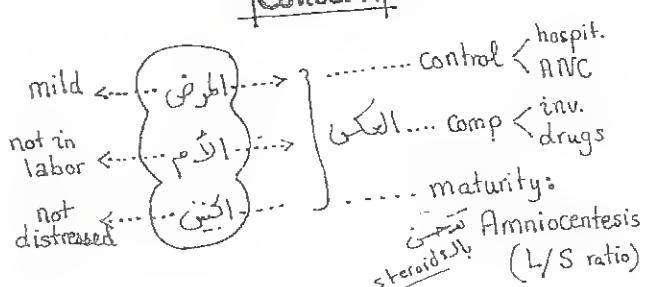
Aetiology
B: FWB
Comp: Diagnosis
E: routine

1. History: fetal kicks
2. Exam: F2 = amen.
3. Inv: - age -

Comp



10



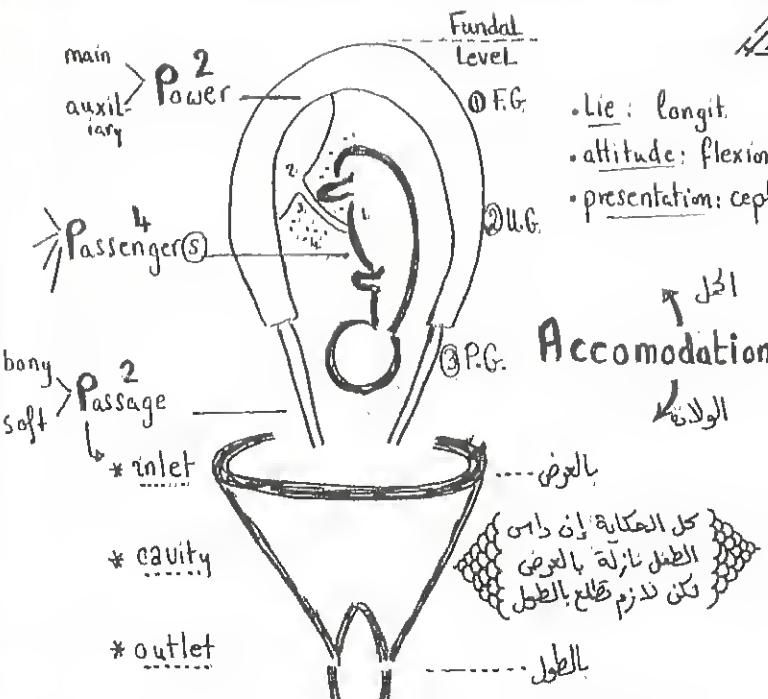
F

- CFMF
- IUGR
- PTL
- IUD

TOP

- V.D. ✓ cx is fit, induction
- AROM ✓ no fetal/mat. distress
- ± oxyt ✓ no assoc. obst. cond.
- [if cx is unripe → local PG] ↗ e.g. contracted pelvis, placenta previa

العنوان
C.S.
SCS ✓
USCS x



Inv. 1. وادئ 3 cm
2. علبي 1 cm
3. وبلبي 2 cm

Comp. 1. Pregr.

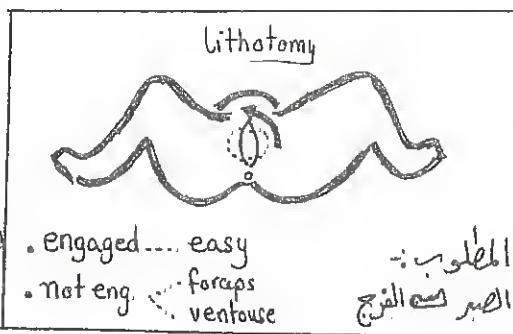
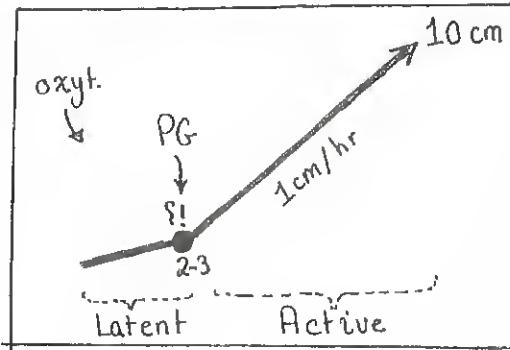
M] حروف ال P

F] حروف سروا

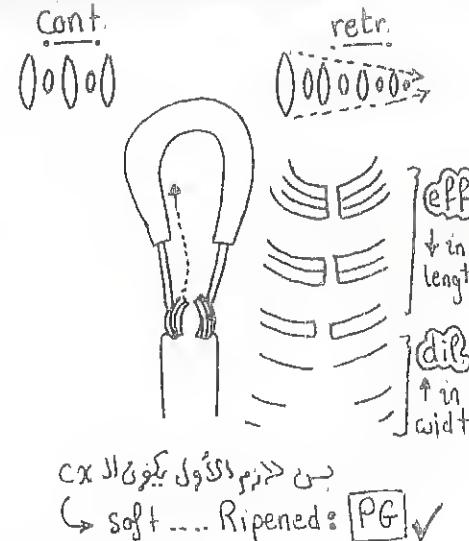
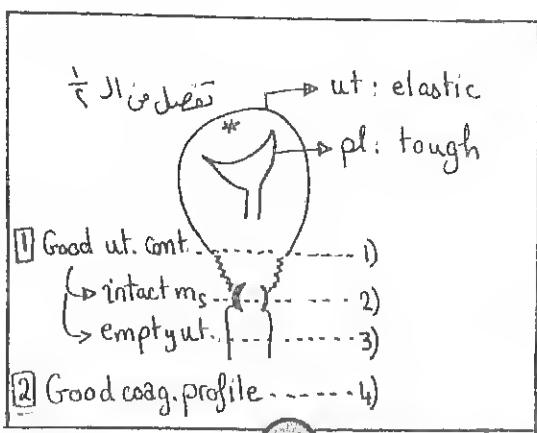
1st stage < Prolonged PROM
2nd stage --- prolonged/abst.
3rd stage < PPhge
P. sepsis

5F

General Obst. outlines



2. labor



3rd stage

* descent
* engagement
* int. rotation

leverator ani

3rd Stage
Guard against PPhge

Termin
1. حفتي (1)
2. حفتي (2)

V.O. \rightarrow AROM 1hr
no CPD { good ut. cont.
C.S. \rightarrow LSCS > USCS
- fit for induction
- no f/M distress
- no ass. obst. indic.

4th

Conserv

البيت / المستشفى : فين
أدوية
المتابعة

FWB
 + steroids

mild العكن
severe المرض
الآم in dist. labor
العنق المخن
in dist. mature

Etiology

endocrine

- CLI ✓
- PCO ✓
- DM, thyr.

Immune

- Auto < SLE
- Allo < Rh
- HLA

thrombo-philia

Infection

- Fibroid
- Cong. anom.
- Aschermann
- Fixed RUF

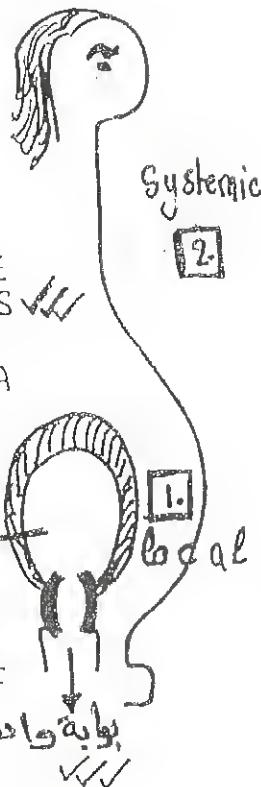
Cong

- ↑ ms fibres
- abs. e ut.
- DES

acquired

obst.

gyna



4-10%
mainly
structural

Assessment

History

* Personal

- * C/O
- >3 successivi

* HPP

- Abortion(s)
- Comp. Ssg

* Menstr

- ↓
- ↑
- PM spotting

* Obst

- time
- order
- abortus
- special ccc

* Past

- medical
- surgical

* Family

Exam

med. dis.

ut (fibroid)

cx (tear)

PIOs

Post-mortum

General

- Progest. 21
- LH/FSH
- PPS
- T₃, T₄ TSH
- ANA, C₃, C₄
- ✓ - ALA, ACA
- Rh

Local

- preg: u/s better TV
- non-preg
- HSG
- Hysteroscopy

Fetal

- Karyotyping

Inv.

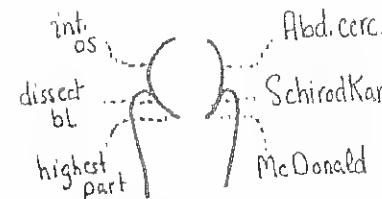
III

General

- Reassurance
- more rest
- vit., Fe
- stop smoke, alcohol

Specific

* PIOS



* APS

- Baby aspirin 75mg
- ④ - heparin 5000 u/12 or LMWH 30-40 mg

Cidioptic

50%

imperical

- Progest
- folic acid
- Aspirin
- + heparin

Cerclage

indication

- PIOs
- Septum, bicorn
- triplet

Timing

18-22 wks \rightarrow possible ROM

Post-op:

- Antibiotics
- Progest, profenid
- + I.C.

Camp:



Removal

2-3 wks $<$ EDD

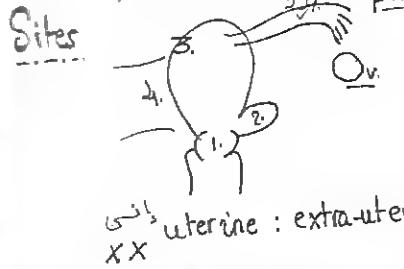
Permanent
= Abd. cerc.

Ectopic

1-3% (increased)
nowadays

inf. : $\text{inf.} = \text{inf.}$
 $\text{inf.} = \text{inf.}$

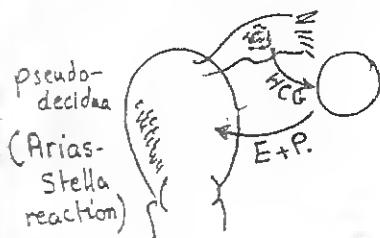
Def. implantation anywhere outside endomet. cavity
(! normal site).



Sites

Fate

1 Undisturbed 2%



C/P

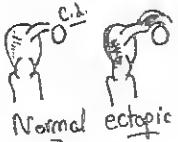
- slight tender swelling
- no shock
- Diagnosed by suspicion

Rare > 12 wk
- thin tube
- poor decidua
- poor bl. supply

Inv.

so lo. \downarrow
Combination
if HCG is > 2000
& US is empty
 \therefore ectopic
(discrimination
zone)

1] TUUS \leftarrow
may be still small
may be misleading



2] β -HCG \leftarrow
doubling: intrauterine
subnormal rise < 66%: ectopic
 \hookrightarrow may be aborting?

If no one is conclusive \leftarrow follow up serially
 \leftarrow laparoscopy

ttt

* Laparoscopy (or laparotomy)

* Conservative medical ttt

$\text{PGF}_{2\alpha}$

2



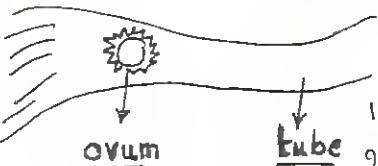
if
Sac < 3cm
 β -HCG < 3000
Hemodynamically stable

1. \rightarrow methotrexate

50 mg/m² I.V.

Etiology

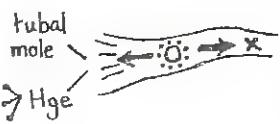
7d



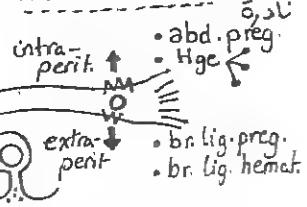
1. Cong. abn.
2. Trauma
3. Infl. (chlamydia)
4. tumor (stretching tube)
5. Others
 - endometriosis
 - prog. contrac.
 - ILICD

2 Disturbed usually at 6-7 wk

Intra-tubal



Extra-tubal



acute abn
shock
abn \leftarrow Acute IPhge
pr. sympt \leftarrow Subacute peritub. hemat
abn \leftarrow Chronic pelvic hemat. in D. pouch

1. Amen.
2. Pain \rightarrow acute
3. Bleeding

\downarrow no need: clinical diagnosis

1] G. shock (variable degree)

2] Abd (\downarrow) T. R. RT.
+ Cullen's
+ shifting dullness

3] PV jumping sign

\downarrow resuscitation \downarrow tti \downarrow tti

lkt \leftarrow laparotomy

tube

1) Salpingectomy

2) Salpingotomy

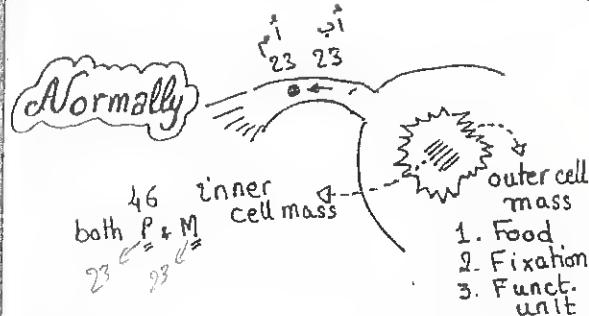
ovary

Conserve

\hookrightarrow Hormone production

if
low parity
mild cases
one tube is
present

\hookrightarrow milking
fimbriectomy



1] Young
Suction evacuation

followed by
curettage (to ensure
completely)
ecblectics (to ↓ hge)

No... hysterectomy
for weak scar
disseminate vesicles

Vesicular mole 1/1000 < previous UIL
1/500 \leftarrow حسب درجة التكثيف

Benign tumor of trophoblast \leftarrow trophoblastic prolif.
+ No formation of villi \leftarrow hydropic deg. of ch. villi

Etiology ?! abnormality in fertilization
immun. genetic nutritional
or
1. Food (Androgenesis)
2. Fixation
3. Function

46 XX
(only paternal)
46 XX

Types +
complete
partial x
Common 46 XX
Rare 69 XYY

Symptoms

1. Amenorrhea + excessive abd. enlargement
2. Bleeding (+ vesicles)
3. Pain
 - dull aching (stitch)
 - colicky (expulsion)
 - sharp (perforation)
 - * acute abd if torsion rupture

Signs

- Fund level ↑
- lab: no fetal parts FHS (doughy) حميرة عصبية
- passage of vesicles is diagnostic
- Bilat. theca lutein cysts + general comp.

Complications

5-10% rare

General
Due to ↑ HCG

- 1- PTH < 2000
- 2- H.G.
- 3- thyrotoxic.

Local
- Hge & inf.
- Recurrence 1-2%.
- Perforation

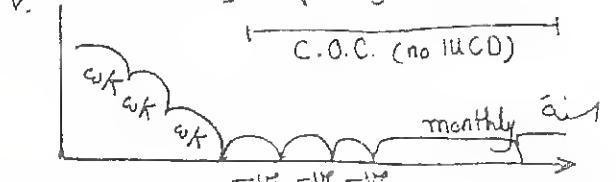
Due to ↑ HPr.

- 1- invasive mole (chorio-adenoma destruens)
- 2- metastasizing mole (pulmonary embolism)

2] Old > 40

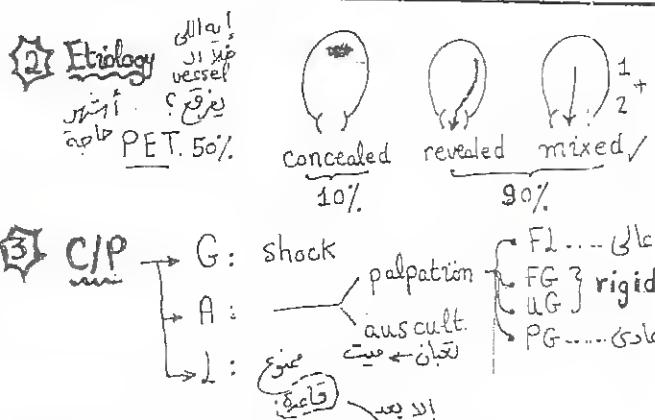
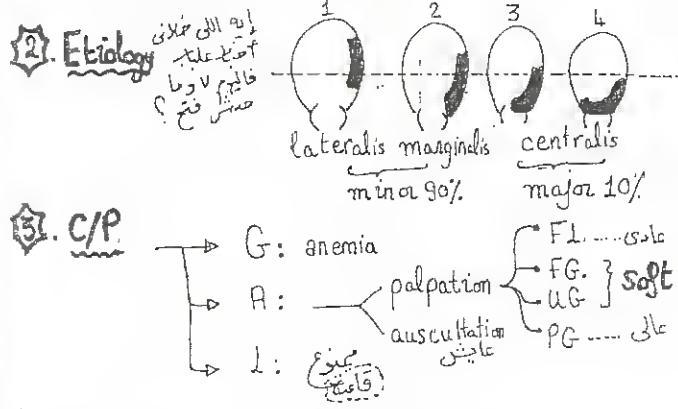
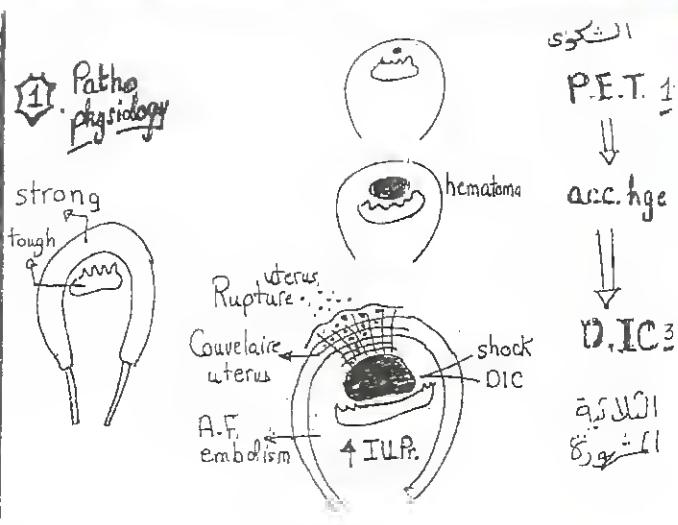
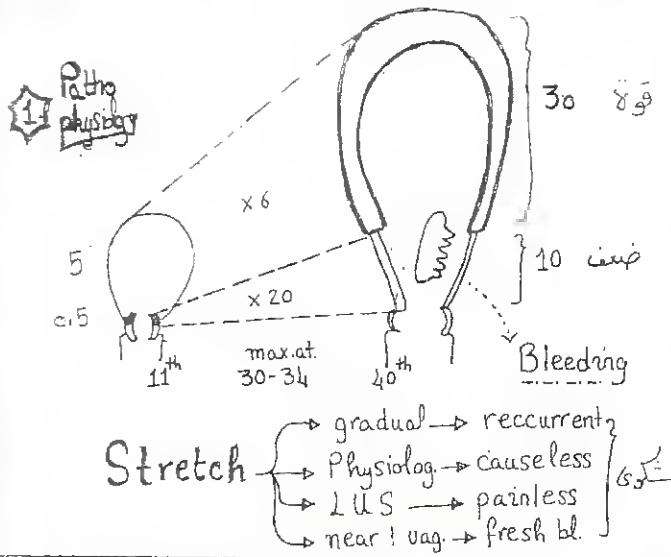
- Hysterectomy in toto
- As risk of choriocarc ↑ to 35%.
- Theca lutein cysts are not removed
surgically --- they will disappear
spont. after 2-3 months (why?)

3] Follow up by B-HCG



abnormal
chorio.
B-HCG
irreg. bleeding
evidence of metastasis

Methotrexate

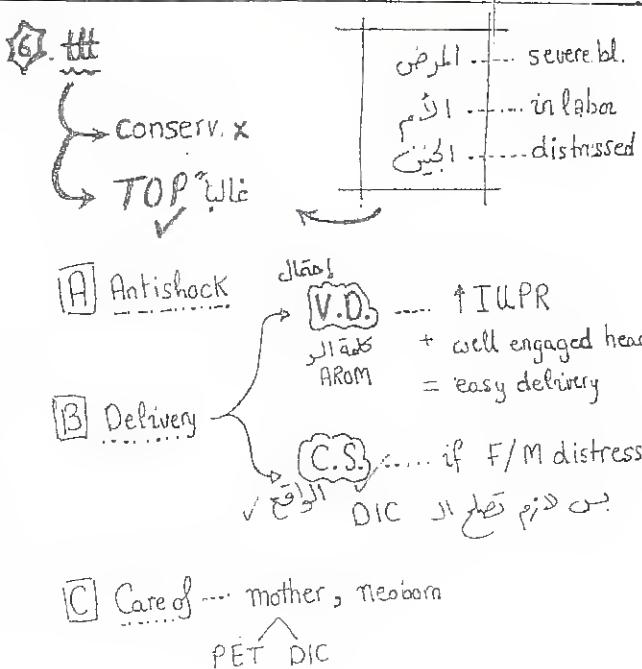
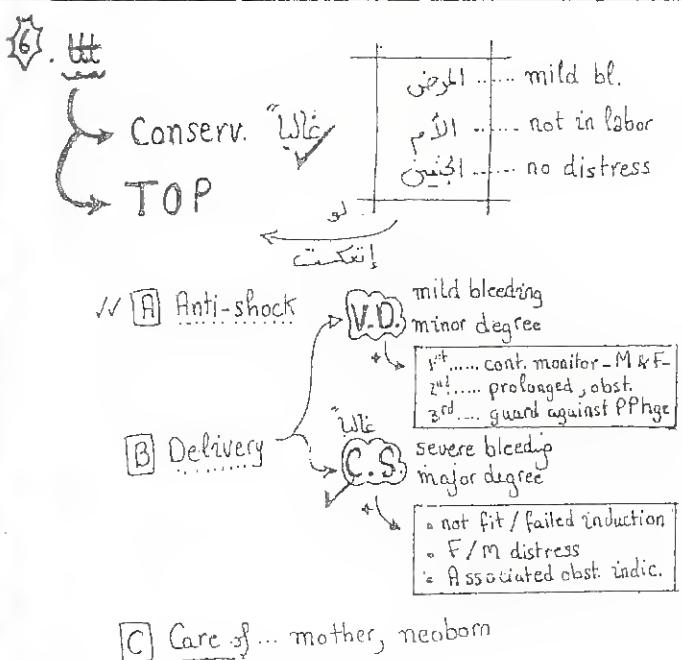
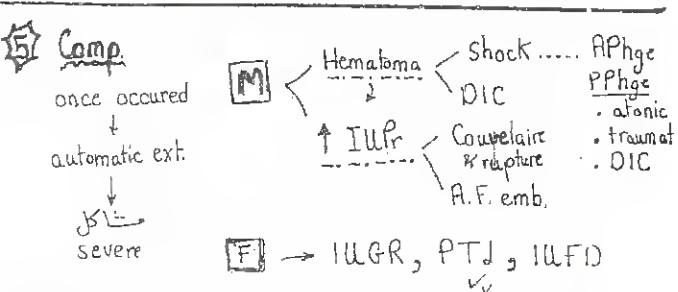
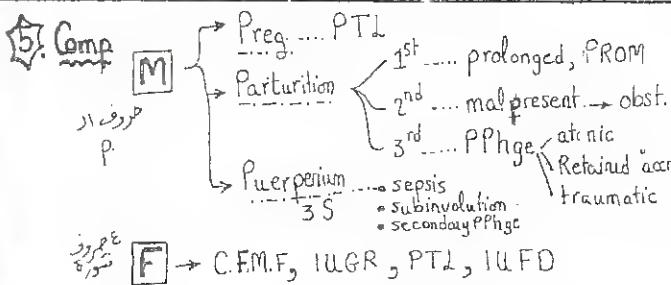


4. Inv.

- U/S → detect exact site
- FWB → U/S, Doppler, CTG, BPP, steroids, amniocentesis

4. Inv.

- U/S → to exclude p. previa
- proteinuria (P.E.T.), FDPs (DIC)



hemorrhage

Bleeding stops
(by:-)

1) contraction

intact ms

complete sep.
of placenta

2) coagulation

Types:-

1st (within 24 hrs)

- Atonic ✓

- traum. (extrap.)

- Retained (3rd st.hge)

- DIC (coag.failure)

- acute inversion ✗

2nd (>day... perip.)

- ! commonest

- ! most serious

- 3 S

- submuc. polyp

- sepsis subinv.

- vulva para vaginal

- Broad lig.

- others

Local general

Bleeding is

Known by

* shock

* > 500 cc

* Hct > 10%

1st PPhgeif placenta not
delivered $\frac{1}{2}$ hr1 Retained pl.
(3rd stage hge)if placenta is
deliveredTrue PPhge
esp.

2 Atonic (90%)

if not atonic

ELA
(fundo-perineal)

3 traumatic

- Rupture ut.

- cx tears

- perineal tears

- vaginal tears

- genital hematomas

- vulva para vaginal

- Broad lig.

- others

Local general

Bleeding is

Known by

* shock

* > 500 cc

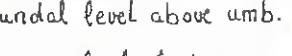
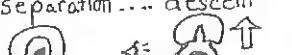
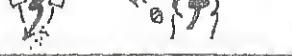
* Hct > 10%

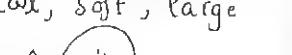
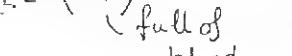
History of etiology

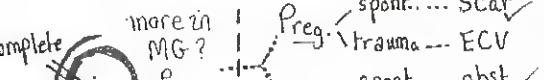
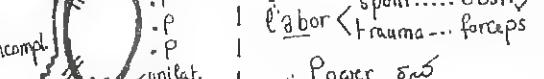
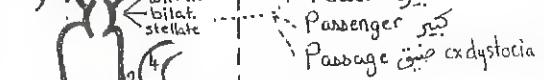
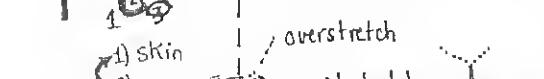
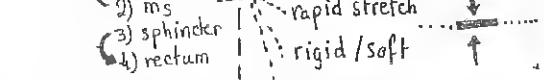
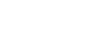
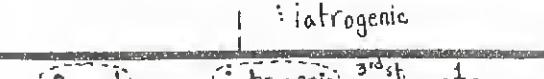
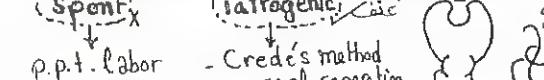
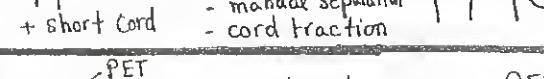
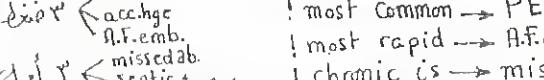
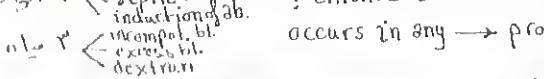
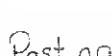
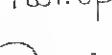
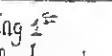
Diagnosis

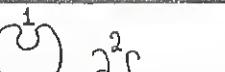
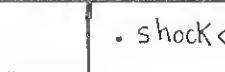
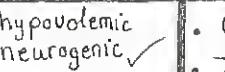
clinically: shock +

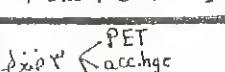
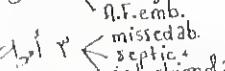
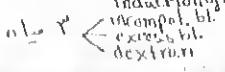
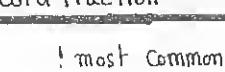
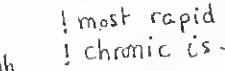
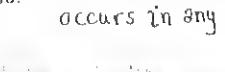
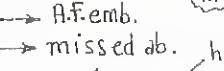
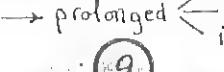
anti-shock \rightarrow  good anticipation
proper management of labor

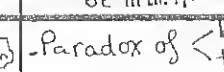
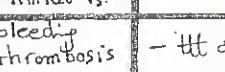
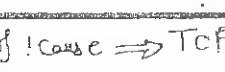
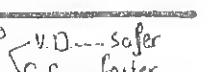
Phys.	failure of	simple (atonic)	types of	fundal level above umb.
1. separation	... Ret. adherent	simple (atonic)	accreta increta percreta	+ signs of pl.  حمودة ... descent
2. Descent	... Ret. separated	atonic rupture contracting	complete partial not	 

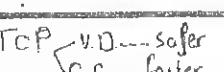
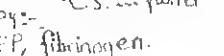
*Preg.	*labor	*uterus	lax, soft, large
- 2 dis. <	1 st 2 nd	- fibroid	
- 2 hge <	..... prolonged....	- cong. malf.	
- overdistended ut. <	..... over....	- G.M.P.	full of blood
- tocolytics	..... excessive....		
	④ full  ④ chorioamn.		

(Types)	(etiology)	comp. > shock	Rupture: SUH 
complete	more in MG? 	if hyst... infertile	... prophylaxis 
incomp.	Preg.  trauma ... ECV	if repair... rupture	Scar 
	labor   obst. 	if injury... ureter	impending: mild 
	Power  Passenger  Passage  dystocia	cx.  Hge  inf. & fibrosis	Frank rupture 
	overstretch 	inf.	obst. 
	rapid stretch	Hge inf. 1	
	rigid / soft	prolapse 2	
	iatrogenic	incontin. 3	
		fistula 4	

Spont.	iatrogenic	1 st	2 nd	3 rd
p.p.t. labor + short cord	- Credé's method - manual separation - cord traction			

1 st   	! most common    PET   
2 nd  	! most rapid   A.F.emb.  
3 rd	! chronic missed ab. occurs in any prolonged hypoxia injury thrombocytopenia Kinked vs.

Paradox of  bleeding  thrombosis
Bed side test (Weiner)
Coagulation profile  

! ht of ! cause \Rightarrow TCP  V.D. ... safer
Replacement therapy:  fresh blood, FFP, fibrinogen.
No  heparin lab?  antifibrinolytics

Types Of HTN

1. P. Ass. H. الغثيان ووجع
1st or 2nd قلبي ودم
أجل

2. P.I.H. 5-10%
ذئب وفرا
ذئب وفرا
20 weeks failure of 2nd wave of inv.

3. P. Agg. H. عذبة
= super-imposed P.E.T.

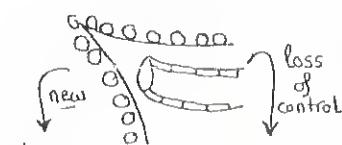
Def. Of P.E.T.

P.E.T ذئب فار
• E Ph gestosis ذئب فار
✓ ↓ ↓
- edema ذئب فار
- edema ذئب فار
HTN ذئب فار
Ptuaria ذئب فار
= gestational (Mirrat)

• PIH ذئب فار
(in 2nd 1/2) ذئب فار
1st 1/2
• usually in a PG ذئب فار
MG ذئب فار

Etiology

theories



imm. Ag-Ab reaction (genetic predisposed)
PG

PG

1. PG ↓ PGE₂, nitric + PGF_{2α}, fibronectin
2. Renin-Ang. sensitivity

Pdf

large Ag. amount
dis. affecting vessel
Twin PG
H. Fet. obese
Polyhyd. + FH
V. male <20 >35
+ APS

old theories

* ANF... a result
* ut. dist. pr. on renal vessels
* الأكل
* الـ

Comp.

1. Maternal

ectampsia... hge... edema
detachment... hge... edema

H. failure ± P. edema

salt & H₂O ret.

Hemoconcent.

~~HELLP~~

jaundice... necrosis
subcapsular... hge

failure... apoplexy

prolif. of cells... ↓ GFR

→ acute tubular nec. ✓
→ acute cortical nec. x

HELLP, IUGR, IUIFO
PTL

Pathology

1. Sympt

headache
blurring
N&V

neurolog. sympt.

sympt of comp.

- Ht failure
- Palm. edema

epigastric pain
(stretch of Glisson caps.)

Oliguria <400
Anuria <100

Kid. funct.
(1st → Puric acid)

FGB
- CTG
- BPP

Severe
1. sympt. Ht
2. signs pluria
3. Comp. clinical
biochem.

or
fulminating
+ hypereflexia

or
eclampsia
+ fits

C/P

2. Signs

Ptuaria (non-selective)

- loss of -ve repulsion

- sig. → if >300 mg/l.

edema Ht, ptn, cap. damage

- occult
- manifest
- dry x pigt.

HtN
- >140/90
- >30/15

Inv.

fundus

. CBC

. coag. profile

liver funct.

Kid. funct.

(1st → Puric acid)

FGB

- CTG

- BPP

Screening

(early detection)

Doppler

Roll over

Cold immersion

↑

fibronectin Ca⁺⁺

(plasma) (urine)

ht

Prophylaxis

- ANC esp. for those (pdf)

- Aspirin 75mg

PGF_{2α}
nucleus: PGF_{2α}

Mild

- mature: TOP

- immature: conserv. ± steroids

Severe

1. sympt. Ht

2. signs pluria

3. Comp. clinical
biochem.

or
fulminating
+ hypereflexia

or
eclampsia
+ fits

Pre-conceptional Care

- Prophylaxis
- (*) early detection by regular ANC
- (*) Aspirin 75mg for high risk

Conservation Hospital

- mild P.E.T
- ① early detection of comp.
 - daily: العمل على التفتيش والارتفاع
 - weekly: العمل على التفتيش والارتفاع FNB
- ② Control of HTN
 - bed rest
 - diet
 - sedative
 - antihypertensive
- ✓ α -methyl dopa (250 mg 1x4) with β -blockers
 - reversible inhibition (nuclear)
 - caution: Ca^{++} blockers
 - doesn't stop progress
 - may ↓ fetal flow
 - ! case is mild
- severe \rightarrow maturity (+ steroids)
- severe \rightarrow comp. (+ edema)

TOP

- ! \rightarrow
- 1. mild (if mature)
- 2. Severe
- 3. Eclampsia

Action

- Sub-cortical depression
- diuretic
- MNj

toxicity

- coma
- H+↑
- Resp.↑
- Kidney
- Knee reflexes

RR ↓

uOP

Knee

MgSO₄

- 4-6gm slowly then 1-2gm/hr
- fits
- induction of labor (CAROM ± oxyt.)
- HTN
- ectopic room
- C.S. (only if HTN) Done 2-4 later

Antihypert.

- ✓ - hydralazine (direct V.D.)
- labetalol (α , β blocker)
- Nefidipine [dangerous]
- * No diuretics except in H.F.

spont. H. quiet

Pulse oximeter

O₂

artery

C_{OPG}

N.O.

CVP

Post-partum care

- Neonate
- Lactation
- Contraception
- Continue MgSO₄ 24-48 hr
- ✓
- Screening
- ! \rightarrow recurrence
- ! \rightarrow !

Heart disease

Etiology	Pathophysiology	C/P	Comp	Inv
1 RHD 93% ⇒ MAT esp. MS	<ul style="list-style-type: none"> - Neck v. - edema - Rt. hypochond. pain <p>signs of SVC</p>	<p>Personal history</p> <ul style="list-style-type: none"> Age Address, occupation Habit <p>HPI</p> <p>On heart</p> <p>Deterioration 1 degree up to heart failure</p> <p>esp. at 1. Preg. 2. labor 3. st.</p> <p>Obst H. previous HF in preg.</p> <p>Past H.</p> <ul style="list-style-type: none"> medical: Rh.F. surgical: valve repl. drugs: anti-failure, anti-coag. 	<p>X-ray ??</p> <p>ECG</p> <p>Echo</p> <p>Rh. fever (ASO titres)</p>	
2 CHD ⇒ more in developed countries			<p>On Preg.</p> <ul style="list-style-type: none"> Class I → No Class II < mild Class III → sever Class IV → rest 	<p>Classific.</p> <ul style="list-style-type: none"> functional capacity (dyspnea)
3 IHD ⇒ rare				<p>[NYHA]</p>

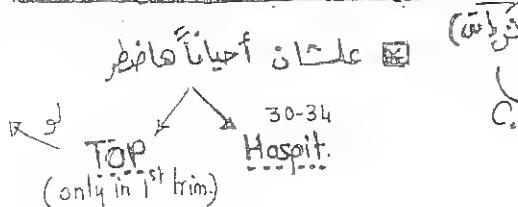
1 Pre-Conceptional control

- * No Preg. if:
 - Class III, IV
 - Eisenmenger
 - Severe AS or Pt⁺
 - History of H.F.
 - Rh. activity
 - IEC

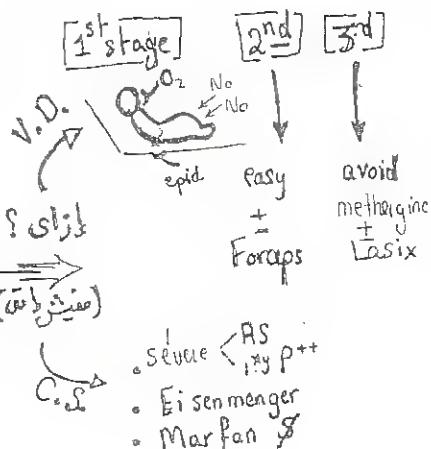
Valve replacement and

2 Conservation "ANC"

- 1-2 wks till 32, then wkly
- ① early det. of comp. e.g. chestinf.
- ② control of HD → digitalis, pen.



3 TOP



4 Post-partum care

Neonate

Lactation

Contracept

الدواعي

↓ recurrence

Mix.

O.A.C.

Heparin

O.A.C.

Heparin

stop

start for 3ds

O.A.C.

2 Heparin

O.A.C.

36-37

short acting (2-4 hrs)

3 O.A.C.

less risk of bl. reversible

by vit K, FFP

have antidiote (protamine sulphate)

disadv. bl. tendency

thrombocytopenia

osteoporosis

disadv. pass placenta

History

- * Personal
 - age: < 30: cyanotic
 - residence: ischemic
 - smoking
- * C/O: → she is well known to have MVR & is referred for control
- * HPP

الإيجابي	الماتي	المرضى نفسه
1. المرض	1. General	إذاري إكستنديو
2. المختلا	2. Local	في عارقة من فرج منه من ملتحي
G. ↓	بسبب... سيل	فرجية... كبرت... الأدوية
↓	مشيمة	فتحت... ملتحي
↓	نزيف... عيل	فتحت... الأدوية
↓	كثرة... كبرت	فتحت... المريحة
↓	فتحت... علهم	
↓	فتحت... تفع	

take care: common sympt. dyspnea, palpit., L.L. edema

- * Menst. molar flush
- * Obst. PTB, easy vag. delivery
- * Contr. no IUCD?! ... no COC?!
- * Past. medical (Rh. fever), surgery, drugs

management**1 Preconceptional**

- Class III, IV
- severe AS, P+
- Eisenmenger
- History
- ↳ H.F.
- ↳ IEC

2 ANC
Rest diet hospital

3 TOP

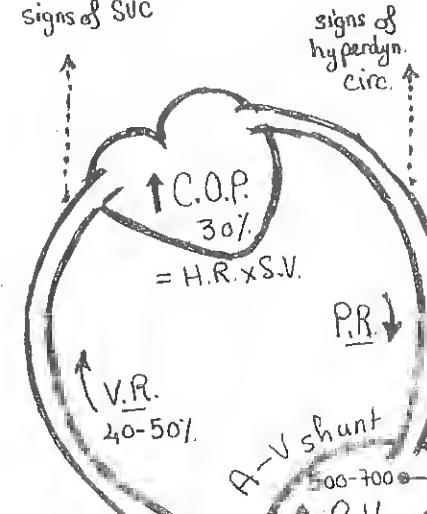
Therap.
TOP
is only
allowed
1st trim.

After that TOP
is more hazardous
than continuing preg.
∴ Cardiac pts are
left for spont. onset

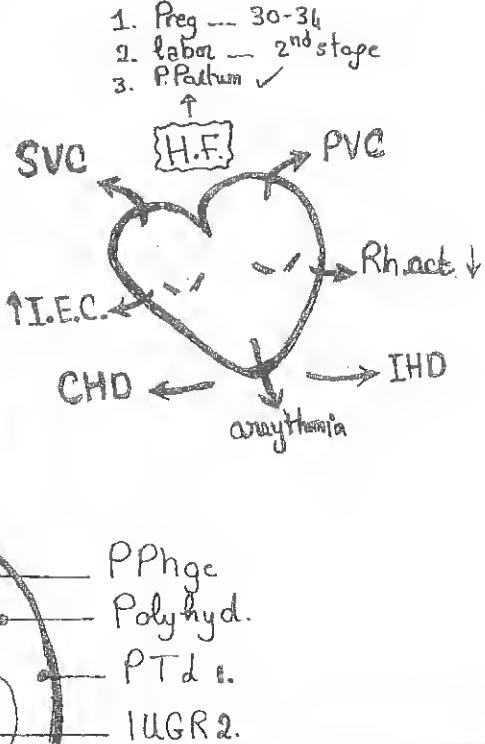
V.D. ↗
C.S.
• A.S.
• P++
• Eisenmenger
• Marfan

Heart disease

signs of SVC

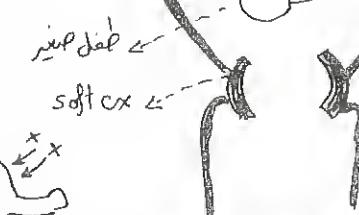


signs of hyperdyn. circ.



PPhge
Polyhyd.
PTd ↓.
IUGR 2.

IUFD 3.
CFMF 4.

**Diagnosis**

Name, 32 years, P₁₊₂,
34 wks, cephalic, not
in labor, IUGR, RHD,
MVR, on heparin, compensated
(acc. to NYHA) $\frac{I, II}{III, IV}$

Examination**General**

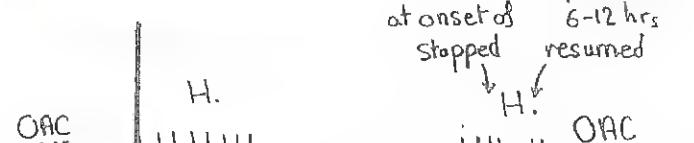
- Pallor, cyanosis
- Don't forget backache
- Heart

peripheral central

- SVC
 - 1) N. veins
 - 2) enlarged liver
 - 3) L.L. edema
- Hyperd. circ. $< 2/6$

splitting 1st sound3rd sound

soft syst. murmur

 $< 2/6$ **Abd. IUGR ± polyhyd.****P.V. :** بالفتح**Value replacement**

ej. : easy control short 1/2 life has antidote

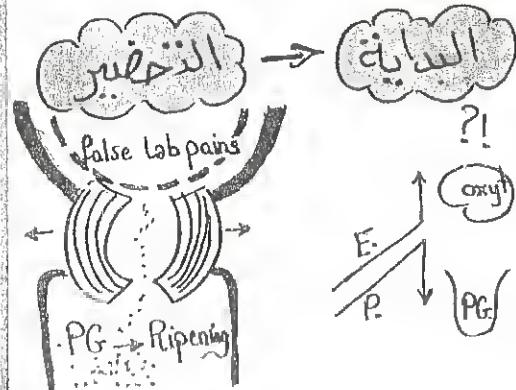
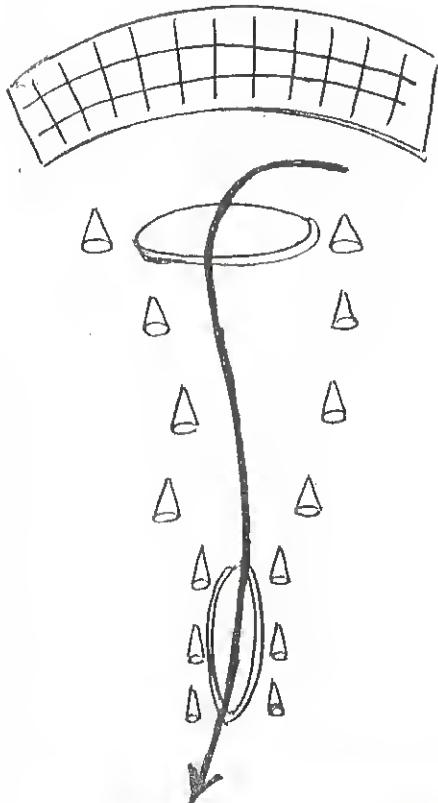
Heparin ↗ ej. : bleedip

OAC ↗ ej. : less bleedip

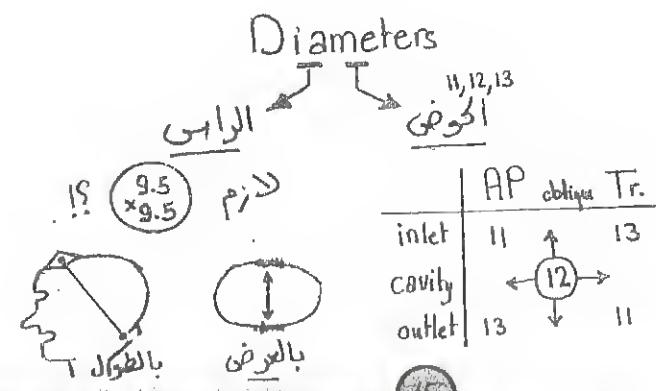
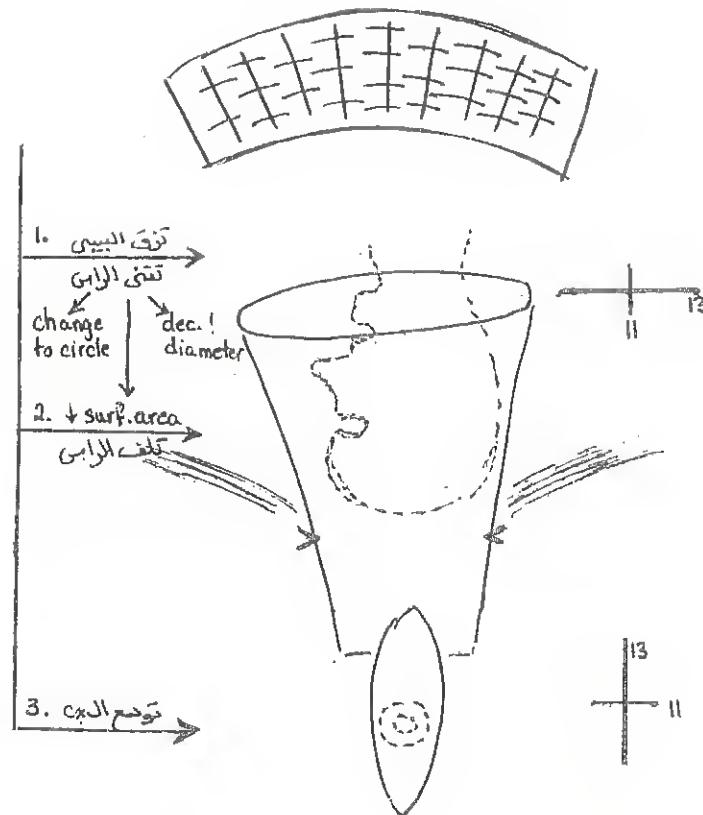
OAC ↗ ej. : passes placenta



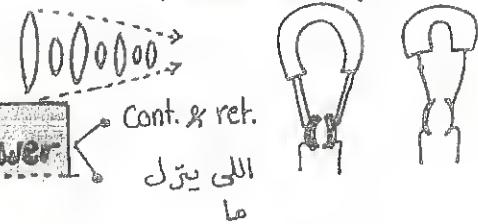
الكلامية



المقاييس



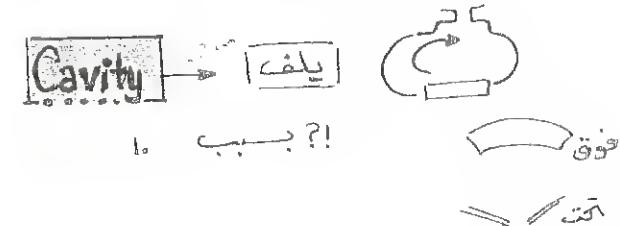
العواني



Inlet

= engagement

أدخل بالعرض
الطول في الطول
وارد خار



قانون اول lev. ani

لكل فعل دفع ...
كلما قلت اول
كلما زادت قوة الـ ...
كلما زادت درجة اول ...

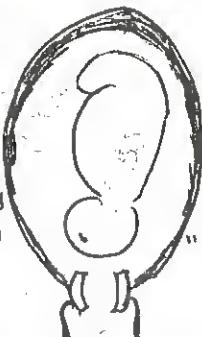
تفتح بجهة واحدة *
تجفف بجهة ثانية *
ما تجفف ما تفتح *
تجفف بالعكس *

Outlet

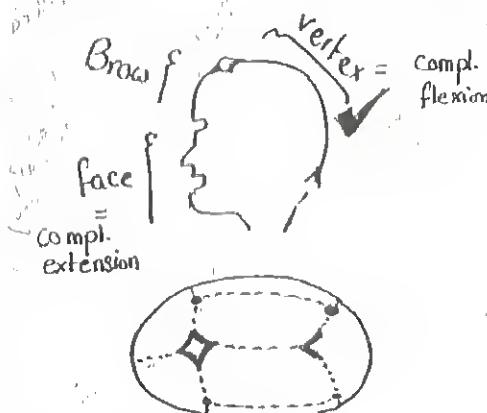
= crowning

أطاح بالطول
دور على
منفحة

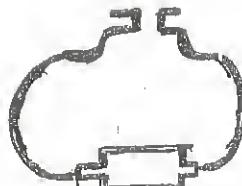
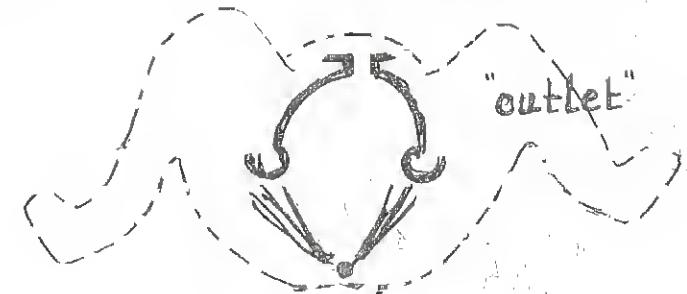
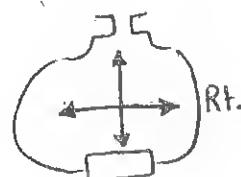
Accommodation

Passenger**1. size****2. Attitude**generalized flexion
why?!**3. Presentation**96% Cephalic
3.5% Breech

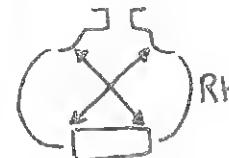
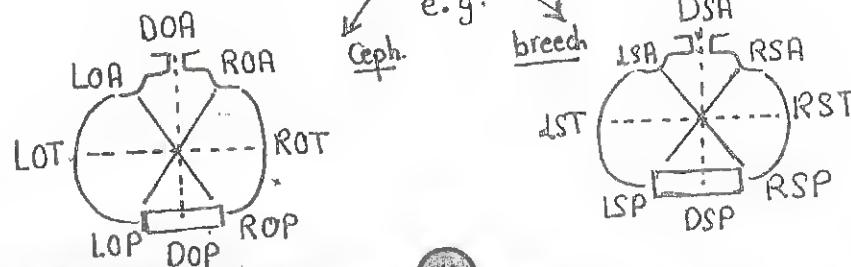
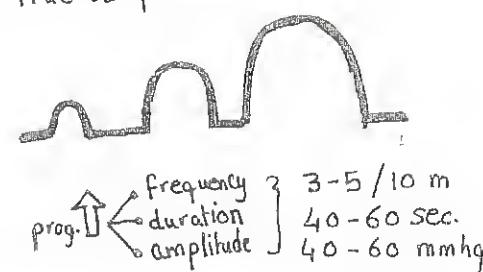
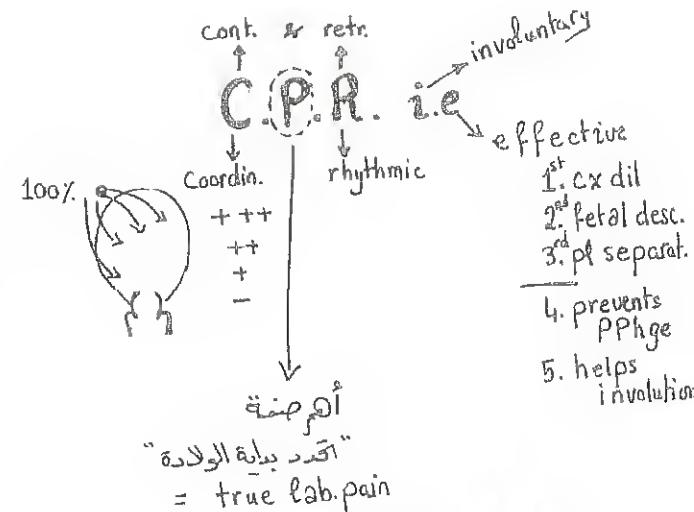
Tr. 0.5%

**4. Denominator**[presenting] ↓↓↓↓ [ejective] ↓↓↓↓
part

Presentation	Denominator
Vertex	Occiput
Face	Mentum (chin)
Brow	Frontal bone
Breech	Sacrum
Shoulder	Aeromion

التعريفات**Passage****"inlet"****"outlet"****5. Position**

= relationship bet. denom. & inlet

= 8 positions
e.g. Ceph. breech**Power****A Main** = uterus**B Auxillary** = bearing down

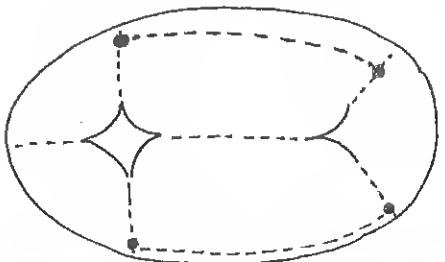
] voluntary

] involuntary: d.t. pressure of fetus on pelvic floor (lev. ani)



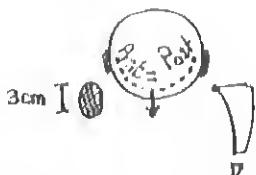
Diameters

Head ← → Pelvis

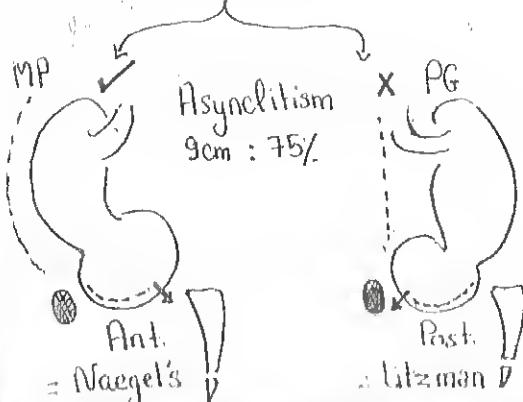


Transverse

Biparietal 9.5
Bitemporal 8.5
Bimastoid 7.5

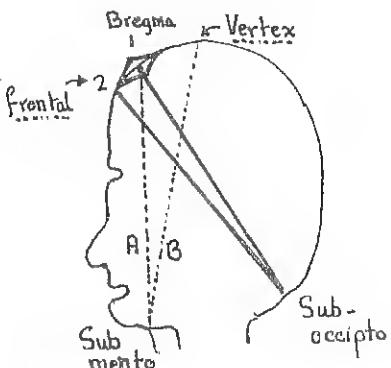


9.5cm: Synclism: 25%



Longitudinal

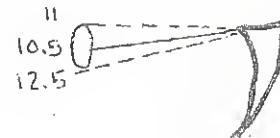
1.	O.A.	fully flexed	Sub..... bregmatic	9.5
2.	O.A.	not	" " frontal	10
3.	→ O.P.	" "	" "	11.5
A.	Face	fully extended	Sub..... bregmatic	9.5
B.	not	" "	vertical	11.5
C.	→ Brow	" "	" "	13.5



	A.P.	Obligate	Tr.
Inlet	11 (10.5)		13
Cavity		12 (12.5)	
Outlet	13		11 (10.5)

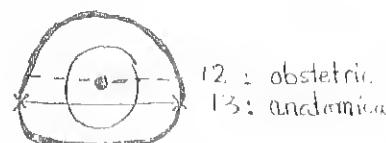
Inlet

A.P.
conjugate

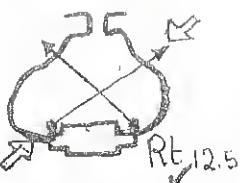


- Anatomical (true)
- Obstetric
- Diagonal

Oblique



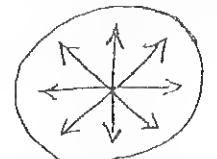
12: obstetric
13: anatomical



[O.P.]
Sacro
cotyloid
9.5

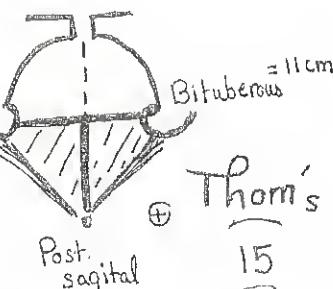
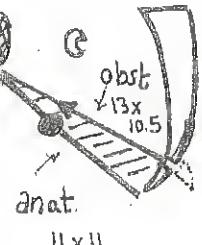
Cavity

12.5 x 12.5



Plane of greatest
pelvic dimension

Outlet





Malpresentations..... 7 x 7

1 Definition

- Lie \Leftrightarrow longitudinal \rightarrow 99.5 %..... Transverse \rightarrow 0.5 %
- Attitude \Leftrightarrow General flexion
- Presentation \Leftrightarrow Cephalic (96 %)---Breech (3.5 %)---Shoulder (0.5 %)



- Denominator \Leftrightarrow Relation between the denominator (a certain point on presenting part) to maternal pelvis

Position

There are 8 main positions:

Presentation	Denominator
Vertex	Occiput
Face	Mentum (chin)
Brow	Frontal bone
Breech	Sacrum
Shoulder	Acromion

Left ant. '1'	Lt iliopectineal eminence	Right post. '3'	Rt sacroiliac joint
Direct ant.	Symphysis pubis	Direct post.	Sacral promontory
Right ant. '2'	Rt iliopectineal eminence	Left post. '4'	Lt sacroiliac joint
Right lateral	Mid of iliopectineal line	Left lateral	Mid iliopectineal line

OA }

why MA }

SA }

2 Incidence

General

Passage	Passenger	Power
1-Soft tissue obst. e.g. \rightarrow pelvic tumors	1- Fetus \rightarrow PT, twins, CFMF	1- Main \rightarrow CMF of uterus e.g. septate
2-Bony obst. e.g. \rightarrow contracted pelvis	2- Placenta \rightarrow P. previa	2- Auxiliary \rightarrow pendulous abd (GMP)

Idiopathic (10-20%)

Special....

4 Clinical Picture

In pregnancy

* Inspection - Normally the back is anterior

- Fetal movements are hardly seen on both sides of midline

Palpation

Fundal level \rightarrow higher (d.t. to failure of engagement)

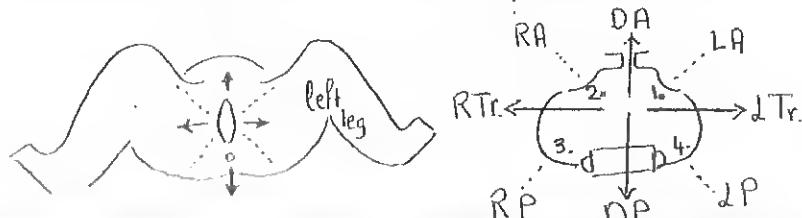
Fundal grip \rightarrow

Umbilical grip \rightarrow Limbs, back \rightarrow felt easy or not ?

Pelvic grips \rightarrow

* Auscultation - (normal = OA \rightarrow midway between umbilicus & ASIS)

* U/S \rightarrow confirms diagnosis, detects etiology, excludes CFMF (TOP)



→ In labor (as in pregnancy + PV)

* Early due to imperfect application on cx \Rightarrow slow dilatation of cx \Rightarrow large bag of forewater \rightarrow PROM (cord prolapse \pm infection)

* Late \Leftrightarrow the exact presenting part, denominator is felt

	Cavity	Bones	Diagnostic ccc
Face	Mouth	Chin + 2 maxilla	Alveolar margin + sucking
Breech	Anus	Coccyx + 2 ischial tuberosities	Meconium + abd. examin.
Shoulder	Axilla	Clavicle + acromion + humerus	Feel the ribs
Brow		Frontal bone, no chin, no posterior fontanelle	(by exclusion)

- Take care from

- Caput.....false impression of low station, masks the denominator
- Meconium...fetal distress (normal in breech, oligamnios, postdate)

5 Mechanism

depends on

6 Management

First stage \Leftrightarrow guard against

Inertia	PROM	Sepsis
- Evacuate bladder & rectum	- Avoid excess I/V	- Prophyl. antibiotic
- Correct dehydration	- Patient should lie in bed	Avoid PROM
- Avoid excess sedation	- Avoid strong enema	Avoid excess I/V

Observation is done by the partogram

* Analgesia, AROM, \pm oxytocin augmentation may be needed

* Indications for CS

- Fetal distress (over-power or fetal stores are already depleted)
- CPD (known by examination from start or by partogram)
 - Prolonged (protracted).....dilatation or descent
 - Secondary arrest of.....dilatation or descent

Second stage \Leftrightarrow delivery is allowed for 1-2 hr in PG ($1/2$ -1 hr in MG)

Third stage \Leftrightarrow guard against PPHge & care of newborn

7 Complication

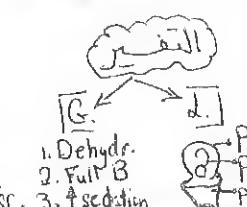
MATERIAL			FETAL
1 st stage	2 nd stage	3 rd stage	
1- Prolonged labor - \rightarrow F & M distress	Obstructed labor - instrumental delivery	1- Trauma - P. sepsis	2- Infection 3- ICHge 4- Death
2- PRCM \rightarrow cord prolapse + infection	2- Prolonged delivery \rightarrow trauma		

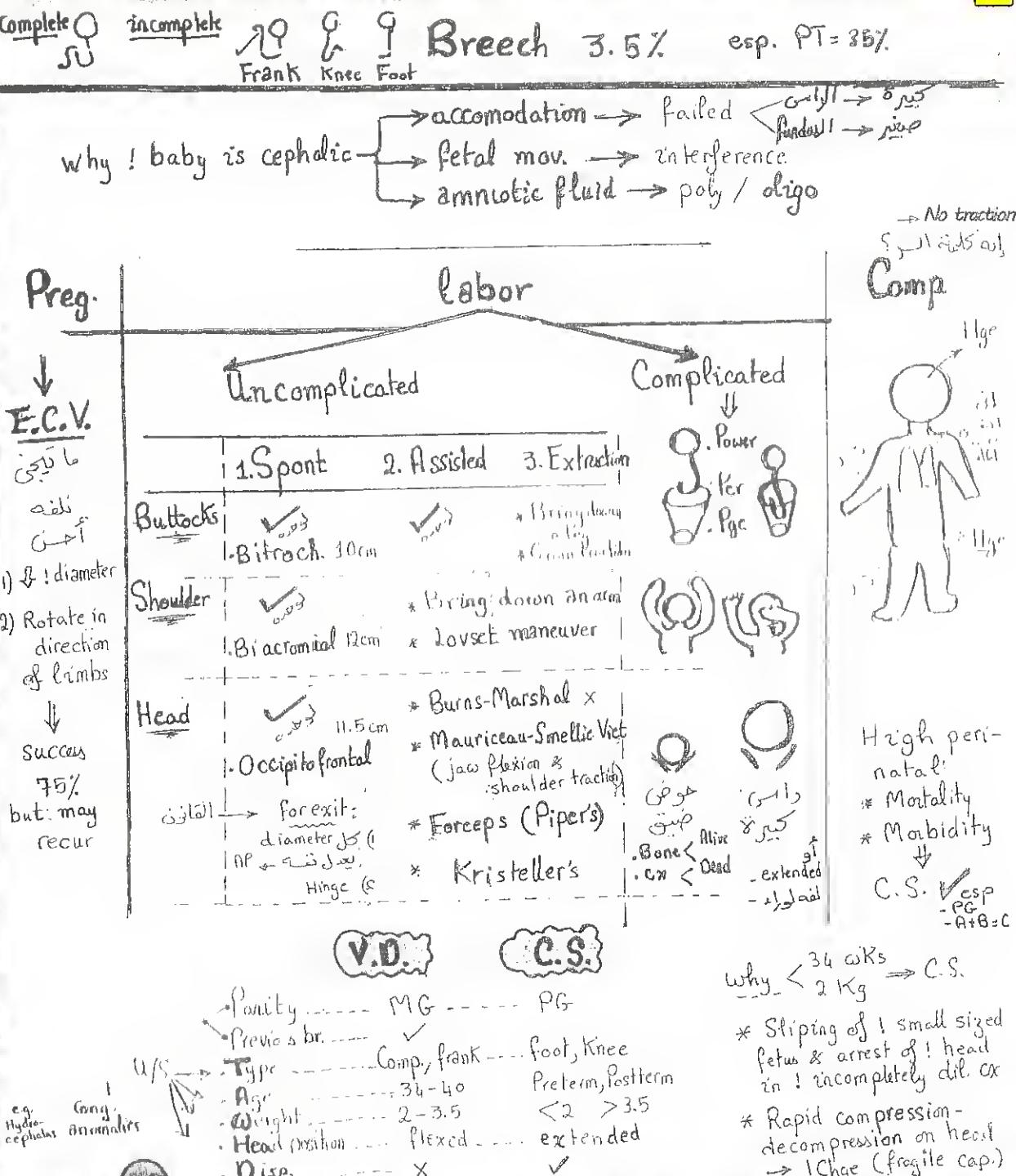
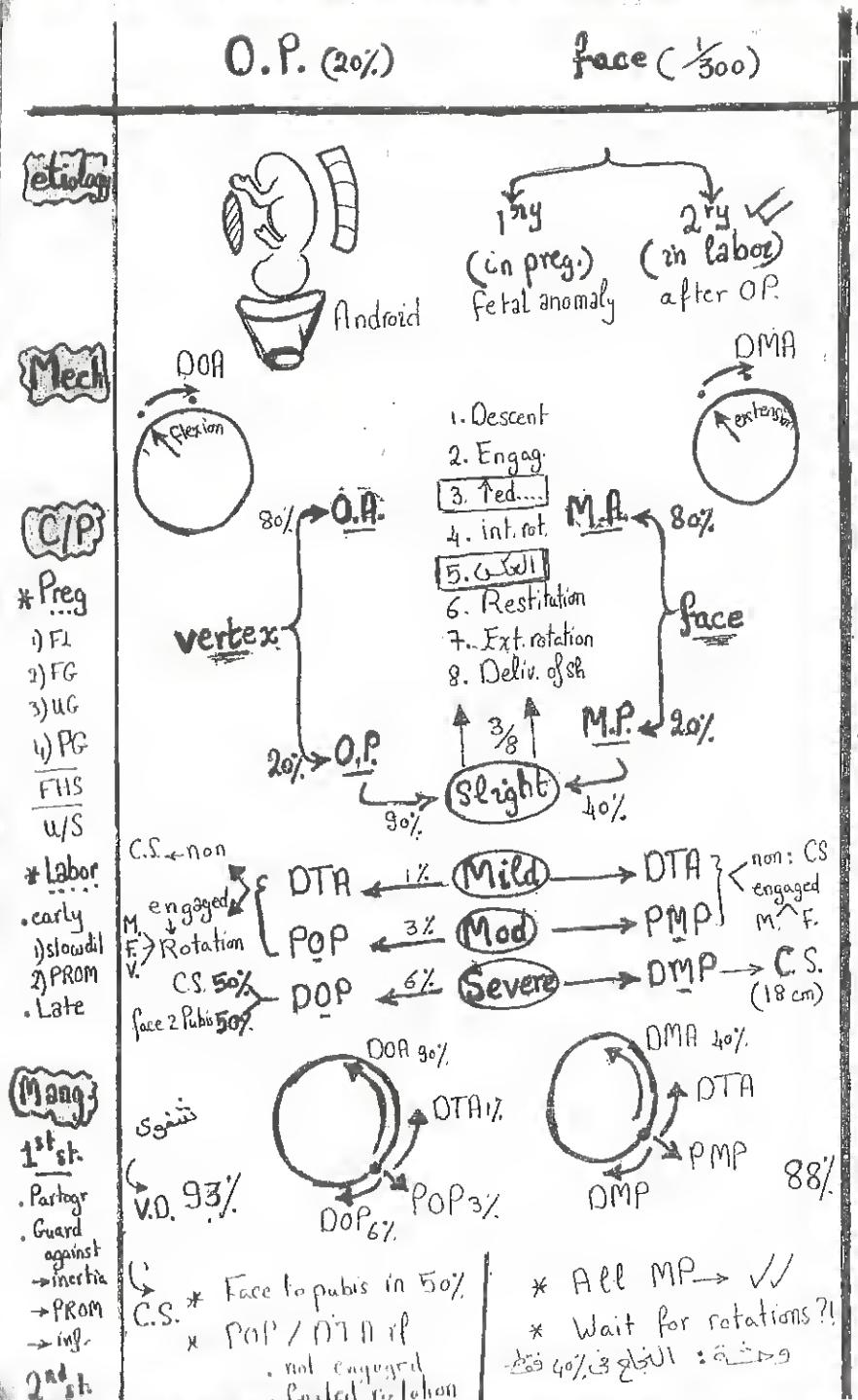
Prolonged Latent

2nd arrest dil.

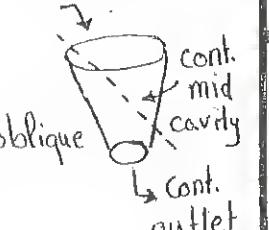
2nd arrest desc.

2nd arrest desc.







Types	Etiology [factors affecting bone growth]	Assessment	CP* ~~~ CPD✓	Management																																										
<p>⊗ Normal</p>  <p>50% Gynecoid</p>  <p>20% Android 'funnel'</p>  <p>25% Anthropoid</p> <p>flat Platypelloid 5%</p> <p>commonest type is...</p>	<p>1. Congenital, familial, racial</p> <ul style="list-style-type: none"> G. Cont. pelvis (Android, antr. platyp.) Naegel's (one ala) Robert's (both ala) High / Low axis (cont. outlet) Otto / split <p>2. Acquired (nutritional, mechanical, disease)</p> <ul style="list-style-type: none"> Kyphosis → C. outlet Scoliosis → oblique Spondylo. → C. outlet Rickets → flat osteom. → triadiate Fracture → oblique Amput. → oblique 	 <p>Assessment</p> <p>1. Local</p> <p>2. General</p> <p>150 - Appearance</p> <p>150 - Height</p> <p>150 - Gait</p> <p>150 - Head</p> <p>150 - Back</p> <p>3. Abd.</p> <ul style="list-style-type: none"> Pend. abd. Non-eng. <p>4. History of</p> <p>1. Labor</p> <p>2. 1st non-eng.</p> <p>3. 2nd abst.</p> <p>4. 3rd S3</p> <p>2nd UTI</p> <p>3rd Pend. abd.</p>	<p>Anatomical [↓ by $\geq 1\text{cm}$]</p> <p>Obst. [↓ to ! extent w/ interfer w/ labor]</p> <p>1. Mild (10-9cm)</p> <p>2. Mod. (9-8cm)</p> <p>3. Severe (8-6cm)</p> <p>4. Extreme (<6cm)</p> <p>Pelvimetry</p> <p>Pinard</p> <p>Muller</p> <p>Kerr's</p> <p>2. Radiological</p> <p>Lat. view</p> <p>Brim view</p> <p>Pubic arch view</p> <p>Semi-sitting</p> <p>3. C. outlet</p> <p>4. Oblique</p>	<p>Def. is changed from CP → CPD</p> <p>Large babies could be delivered from a larger pelvis</p> <p>Nothing</p> <p>Trial of labor</p> <p>C. section</p> <p>why?</p> <ul style="list-style-type: none"> Power → m. b. effective Per. → asynd., moulding Pge → pelvic give <p>power....</p> <p>per. Who?</p> <p>pge.....</p> <p>PG, healthy, young</p> <p>vertex, OA, normal CTG</p> <p>1st CPD, no cont. outlet</p> <p>How?</p> <ul style="list-style-type: none"> 1st stage → guard against (patogram) AROM, oxyt, andy 2nd stage → engaged: F., V. non-eng: C.S. <table border="1"> <thead> <tr> <th></th> <th>Causes</th> <th>Mech.</th> </tr> </thead> <tbody> <tr> <td>1. Generally cont. p.</td> <td>- inlet: ↓ engag.</td> <td>C.S.</td> </tr> <tr> <td>2. Cont. inlet (flat p.)</td> <td>- cavity: ↓ rotation</td> <td>C.S.</td> </tr> <tr> <td>3. C. outlet</td> <td>- outlet: ↓ exit</td> <td></td> </tr> <tr> <td>4. Oblique</td> <td>- Simple abd. inlet</td> <td></td> </tr> <tr> <td></td> <td>- Rickets w/</td> <td></td> </tr> <tr> <td></td> <td>- And, Anth.</td> <td></td> </tr> <tr> <td></td> <td>- Kyph, spond.</td> <td></td> </tr> <tr> <td></td> <td>- High asy.</td> <td></td> </tr> <tr> <td></td> <td>- Maegel's</td> <td></td> </tr> <tr> <td></td> <td>- Scoliosis</td> <td></td> </tr> <tr> <td></td> <td>- lower limb</td> <td></td> </tr> <tr> <td></td> <td>In 1 other</td> <td></td> </tr> <tr> <td></td> <td>Oblique diam</td> <td></td> </tr> </tbody> </table>		Causes	Mech.	1. Generally cont. p.	- inlet: ↓ engag.	C.S.	2. Cont. inlet (flat p.)	- cavity: ↓ rotation	C.S.	3. C. outlet	- outlet: ↓ exit		4. Oblique	- Simple abd. inlet			- Rickets w/			- And, Anth.			- Kyph, spond.			- High asy.			- Maegel's			- Scoliosis			- lower limb			In 1 other			Oblique diam	
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<p>⊗ Abnormal contracted inlet</p>  <p>oblique</p> <p>cont. mid cavity</p> <p>cont. outlet</p> <p>G. contracted</p>	<p>Comp</p> <p>F</p> <p>M</p> <p>1. Labor</p> <p>2. 1st non-eng.</p> <p>3. 2nd abst.</p> <p>4. 3rd S3</p> <p>1st ant. sac.</p> <p>2nd UTI</p> <p>3rd Pend. abd.</p>																																													

Antepartum FWB

(*) Symptom → Fet Kicks

- Cardiff count to 10
- Normal > 1 FK/hour (> 32 wks)
- abnormal → if > 10 hrs or double norm
- subjective (not suitable for HRP)

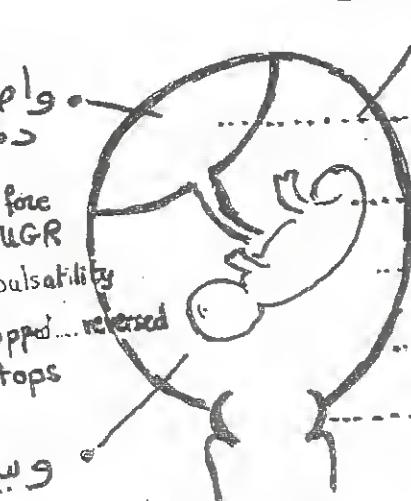
General: ↑ weight

(*) Sign → Abd: progressive ↑ in FL = gravidogram
circumference = abd. girth

✓ (*) inv

a. Doppler

- earliest detection before pathology e.g. PET, IUGR
- S/D ratio, resistance, pulsatility
- 1st → diastolic: ↓ stopped reversed
finally → systolic: stops

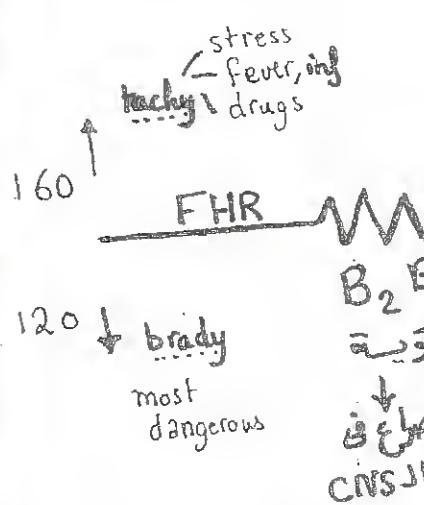


b. UL/S

abd 1.5 MHz
vag: 7.5-15

- site, grading 0, 1, 2, 3
- life, site, no, CFMF, biometry (BPD, TAO, TTD, FL, HL)
- turbidity, index (5-15)
- anomaly, fibroid
- dimensions (patulous os)

c. CTG



frequency
amplitude

✓ newb. type I
✗ metab. type II

العلاقة مع حركة الجنين

Acceleration (NST)

- ve reactive > 2/20 m.
- ve non " < 2/40 m.

العلاقة مع حركة الجنين

Deceleration (CST)

- ve ... no dec.
- +ve ... dec. > 50%.
- suspicious ... dec. < 50%.

$\alpha = 38-10$
 $\frac{1}{2} \frac{1}{2} 6-7 \rightarrow$ CTG (Meyer-Mink)

	0	1	2
1. FHR	< 100	100-120	120-160
2. amplitude	< 5	5-15	> 15
3. Freq.	< 2	2-4	> 4
4. acc.	no	1	2/20m
5. dec.	> 50%	< 50%	7/10

→ +

BPP (Maning) ↓

✓ 1. CTG

- 2. f. breath.
- 3. f. mov.
- 4. f. tone

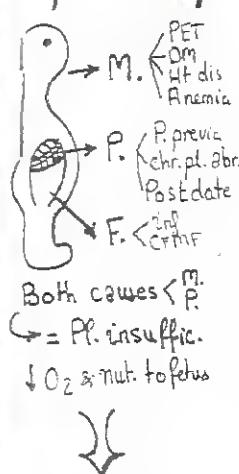
✓ 5. AFV

0	2
< 2	> 2 acc./20m.
less	cont. for 30 sec.
less	3 mov./30m.
-ve	opening/closing hand
< 1x1	1 pocket 1x1

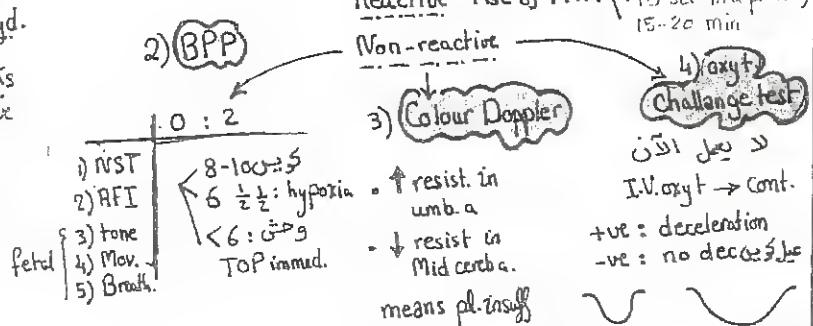
Antepartum

1 FWB

Fetology

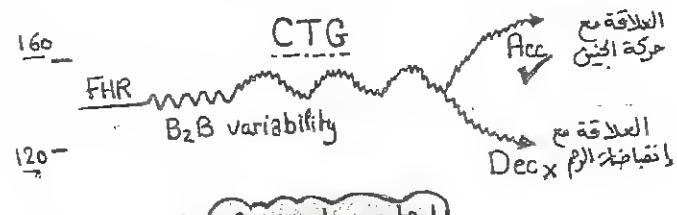


1. Redist. of bl (Br. sparing) → Assym. IUGR
2. ↓ pl. & renal bl. flow → Oligohyd.
3. ↓ f. kicks (to preserve energy)

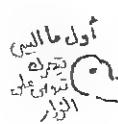


Assessment

A] History of risk factor
↓ daily FMC (الدورة)
B] Clinical G: + weight
L: ↓ abd. girth
C] Inv. (surveillance):-



Non-stress test



Reactive rise of FHR (15 bpm for 15 sec in a period of 15-20 min)

Non-reactive

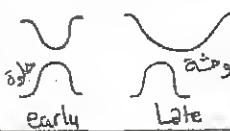
Colour Doppler

- ↑ resist. in umb. a
- ↓ resist. in Mid cereb.

means pl. insuff
??

Oxyt. challenge test

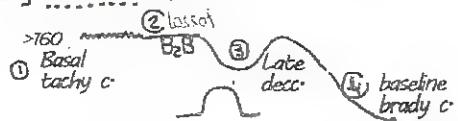
- I.V. oxyt. → cont.
- +ve: deceleration
- ve: no deceleration



Assessment

A] clinical Abn. FHR by Pinard
Mec. stained liquor

electronic (CTG)



C] chemical fetal scalp bl. sample 7.25-7.35 (N)
<7.2 (acidosis)

7.2-7.25 mild acidosis

<7.2 severe acidosis

Intrapartum

Fetology

- 1) Chr. hypoxia (as antepartum) ← P.
- 2) Acute hypoxia
 - Placenta → sudden sep: Acc. hge
 - Cord → prolapse, rupture vase. prava, true knots, cord around neck
 - Head → Long ROM (prolonged compr.) obst. lab., ut. hypotonicity

Postpartum

Fetology

- 1) Persistance of antepartum intrapartum
- 2) PTL CFMF
- 3) Neonatal
suppression
Cardiac
Resp. (periph. obst. (mecon, blood))

Assessment

	0	1	2
Appearance	blue, pale		Pink
Pulse	absent		>100
Grimace	none		cry
Activity	flaccid		active
R esp.	absent		good

measured at < 1 min.
5 min.

2 CFMF

Management

- Chronic conservative (H) & close monitor
- Acute e.g. acc. hge → immediate TOP

Cong. Chrom.

- Structural defects
- Biochem. "
- Structural
- Numerical

Etiology

- Extrinsic
- teratogens
- Pollutants
- Intrinsic
- Mat. e.g. DM
- fetal. e.g. P. pr.

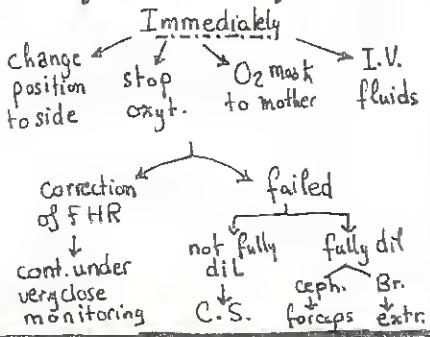
Indications

- 1) Age > 35
- 2) Consanguinity
- 3) Previous history of CFMF
- 4) Exposure to etiology

Technique

- 1) Serum markers
 - α FP (↓ in Down)
 - triple test α B 3
- 2) 3D U/S ... MRI x
 - 12 wks → NTL (N: 1.5mm)
 - 18-20 → detailed anatomy
- 3) Invasive
 - Amnio centesis 16 wks
 - Ch. villus Sampling 8 wks
- 4) Recently
 - PGD (pre-impl. genetic diag.)
 - Fetal cells in mat. circ.

Management



Management

Prophy: good < antepartum care < intrapartum care

Active:

- Assist vent. → endot. tube
- Breathing < O2 clear air-way
- Cardio-pulm. resusc.
- Drugs
 - Nalorphine
 - Na. bicarb. (acidosis)
 - vit K. (hge)
 - Abx.

IUGR

3.....4
10th.....90th

Macrosomia

Def

$< 2.5 \text{ Kg} (< 10^{\text{th}} \text{ percentile})$
= path rest. of ability to grow

5%

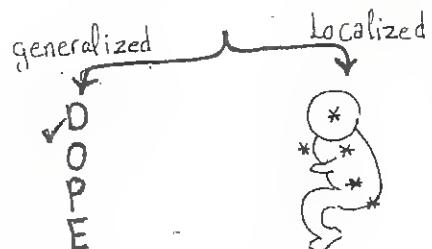
Small & healthy
D.D. of IUGR
2BCW
PTL

$> 4.5 \text{ Kg} (> 90^{\text{th}} \text{ percentile})$
= except in DM $> \dots \text{ Kg}$

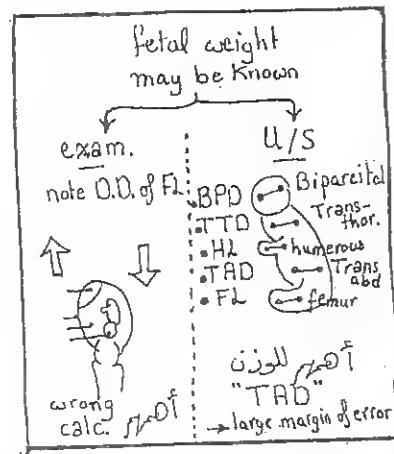
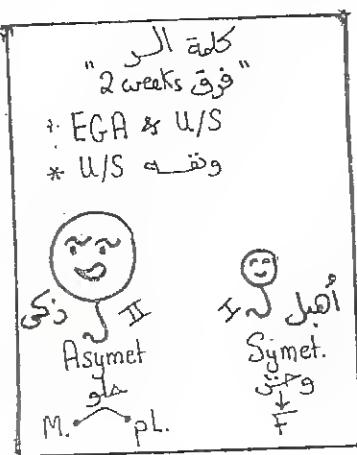
5%

Etiology

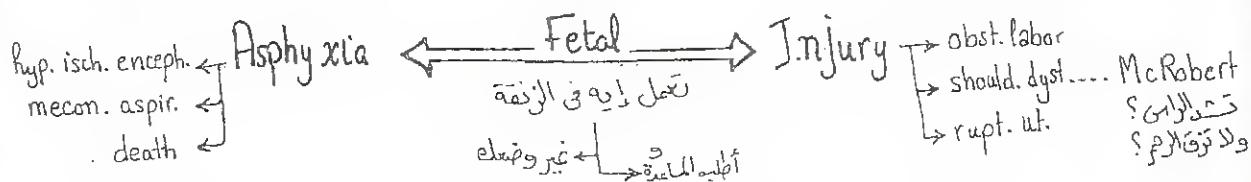
- جريمة الأم IUGR
 - HRP... PET
 - ox.
 - جرو
- وحش الرحم
 - PL. previa.
 - PL anomalies
 - cord anomalies
- أُبل الجنين
 - CFMF
 - STORCH
 - TTTT



Assesm.

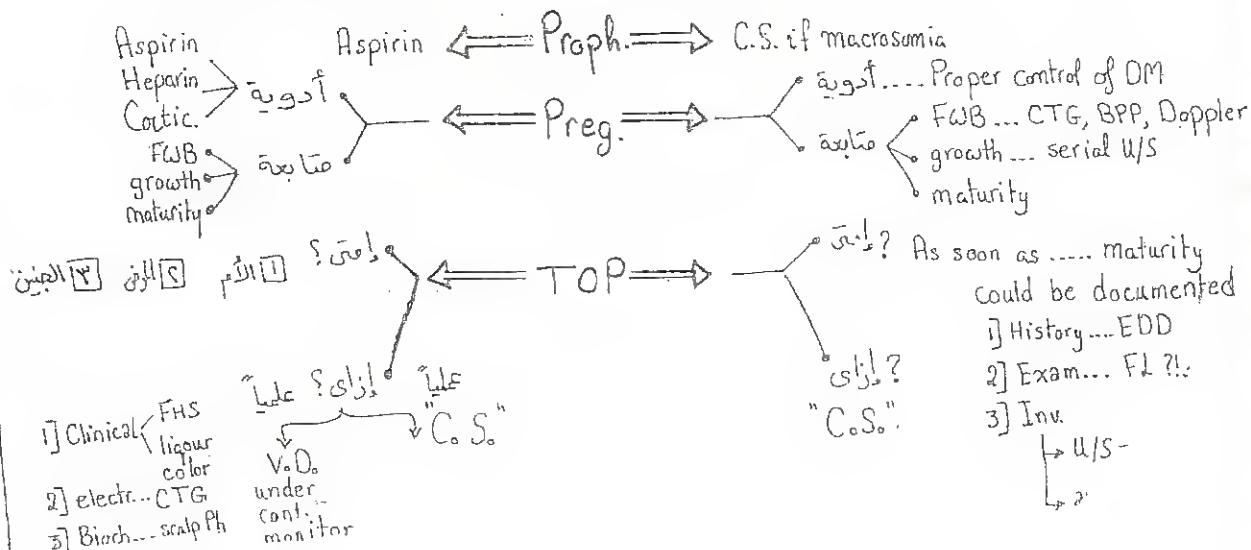


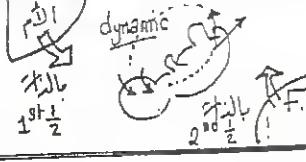
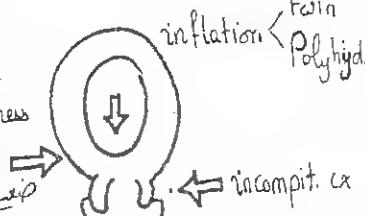
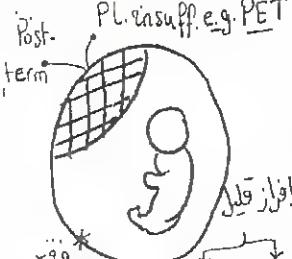
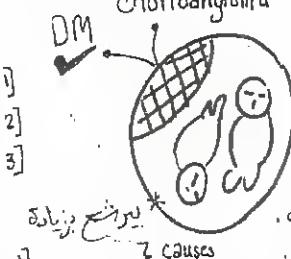
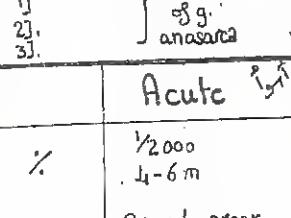
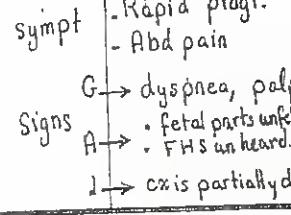
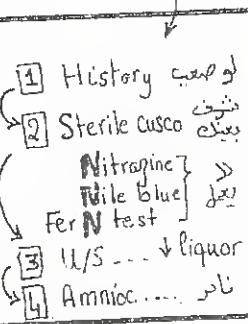
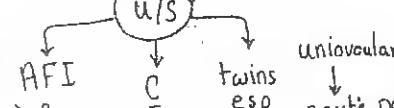
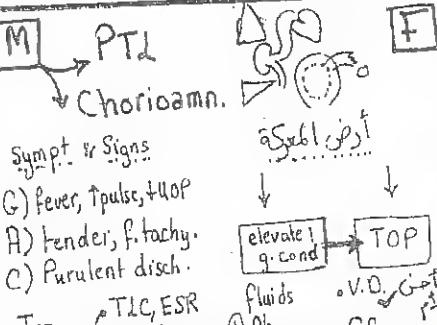
Comp.



P...position O... oxytocin S... supply fluids I... immediate T... termination O... oxygen N... neonatal resuscit.	H...elp E... episiotomy L... lithotomy P... pressure E... enter R... station
---	---

#



PROM.		1-10%	Oligo	0.5%	Polyhydram.	0.5%
Def.	<ul style="list-style-type: none"> PROM < active ut. cont. 10% ... 80% بحالات PPROM < 37 wks 1% ... 10% بحالات 	<ul style="list-style-type: none"> PPROM \rightarrow PROM 37 weeks \rightarrow PROM جهاز التنفس 	<ul style="list-style-type: none"> Clinically ↓ amount U/S \rightarrow AF < 0.5L 	<ul style="list-style-type: none"> ↑ amount > 2L > 20 cm 		
etiology	<ul style="list-style-type: none"> inherent weakness insuff. nutr. \rightarrow hypop. incompat. cx catrogenic \rightarrow I.C. infection \rightarrow infection 					
GP	<p>G. Sudden gush of urine H₂O vag. fluid \rightarrow D.D. show inf.</p> <p>A. FL < amen. easily felt easily heard \rightarrow moulded</p> <p>L. Never ... except if TOP is done.</p>		<p>History of PROM ... PET</p> <p>! same</p> <p>→ small bag of forewater</p>		<p>Acute</p> <p>%</p> <p>sympt</p> <p>G → dyspnea, polypit, LL edema \pm PET</p> <p>A → fetal parts unkif ... difficult to feel</p> <p>L → cx is partially dilated \pm bulging memb.</p>	<p>Chronic</p> <p>1/2000 4-6m</p> <p>- gradual</p> <p>- Abd discomfort</p>
Inv.	<p>A. vag. swab: C&S</p> <p>B. FWB \rightarrow CTG BPP</p> <p>C. ESR, TLC, CRP</p> <p>D. U/S (non-inv.) amn. (v. invas.)</p> <p>E. amnioc.</p>		<p>Exclude ROM</p> <p>U/S</p> <p>AFI < 5cm</p> <p>C</p> <p>F</p> <p>M</p> <p>F</p> <p>Post-maturity</p>		<p>Exclude DM</p> <p>U/S</p> <p>AFI > 20cm</p> <p>C</p> <p>F</p> <p>M</p> <p>F</p> <p>twins esp</p> <p>uniocular</p> <p>acute poly.</p>	
Comp.	<p>M. PTL \rightarrow Chorioamn.</p> <p>F. Sympt. & Signs</p> <p>G. fever, t.pulse, t.HOP</p> <p>H. tender, f.tachy.</p> <p>I. Purulent disch.</p> <p>INV. \rightarrow Amnioc.</p>		<p>Perinatal asphyx. d.t.</p> <ul style="list-style-type: none"> - malpresent. - cord compr. - cong. inf. <p>Prolonged oligohyd.</p> <ul style="list-style-type: none"> \rightarrow I.L. age - lung hypop. \rightarrow < 26.0ks, - Arthrogryposis \rightarrow > 6 wks - Talipes equinov. 	<p>M. sole</p> <p>PTL</p> <p>Pregnancy</p> <p>Pressure sympt</p> <p>PET</p> <p>P.p. & acc. hge if malpresent.</p> <p>PROM</p> <p>Part.</p> <p>1st ... Prolonged</p> <p>2nd ... PPhage</p> <p>3rd ... P.sepsis</p>	<p>F. PTL</p> <p>CFMF</p>	
III	<p>1) Proph.</p> <p>2) Active</p> <p>3) Conserv.</p> <p>4) TOP</p> <p>5) Neon.</p>	<p>< 26 ... > 35</p> <p>PTL</p> <p>lung mat.</p> <p>infect</p> <p>Hosp.</p> <p>TOP</p> <p>V.D.</p> <p>C.S.</p> <p>Abcs.</p>	<p>Preg.</p> <p>Malformed</p> <p>No</p> <p>follow up</p> <p>fet. distress</p> <p>\pm amnioinfusion</p> <p>TOP</p> <p>labor</p> <p>C.S. %</p> <p>etc</p> <p>→ Prolonged lab</p> <p>→ fetal distr.</p> <p>→ malpr. (breech)</p>	<p>Acute</p> <p>W/TOP by</p> <p>! controlled ROM</p> <p>Drew Smythe</p> <p>Chronic</p> <p>Hosp.</p> <p>Nutrition</p> <p>Follow up</p> <p>pr. sympt.</p> <p>ttt of ! cause</p> <p>Drugs</p> <p>Anti-PG: ↓ f. urine</p> <p>Amnioreduction</p>	<p>TOP</p> <p>CFMF</p> <p>no improve</p>	

Twins

1/80
Helen's rule *

etiology

1) Race < familial ٣٣٪
جغرافيا ↑ age, ↑ parity
2) Hormones < induction
C.O.C.

٣٣٪ من الافتقار
متغيرات كثيرة
الانسحاب غير
جهاز
• placenta
• Am. membrane
• fetus

due to fertilization of one ovum
by one sperm → constant factor
all-over world = $1/250$

Identical
except in

1875) 200.000

G. excess weight
21 edema
PET

Helin's rule

Types

in U.

Vanishing number 1.

lambda

Tau

polyhyd. Comp.

FWR 4.

Doppler

5. Selective embryo-reduction

- Diet دیت proph. cerclage
- Rest ریست steroids ?
tocolytics
- followup متابولیزم
 - علت ایجاد ایجاد کننده
 - جعل طبیعی - جعلی

1st stage

guard against

twin A --- episiotomy ✓, min. interference

2nd stage

after its delivery-- no methergine x, exclude and prolate.

3rd stage

• Twin B → Cephalic < spont. delivery (20-30 min)
if distressed or > 20 min

- engaged → forces/ ventouse
- non-engaged → I PV & br_{ext.}

• breech < spont. br. delivery
if --- or --- → Br. extraction

- transv. — IPV & br. extraction.

C/S

1. Monoamniotic
1. ^{1st} non-vertex
2. nd twin retained
3. babies or more

④ twins

- locked twin
- conjoined twin

- Straight: Simpson J, low forces
- Curved: Wrigley J, in C.S.

Short

Ordinary

long

Chamberlain

English

- Neville ... axis piece
- Simpson ... Serration
- Barnes ... Notch
- double slot

French (Tarnier)

- Axis t. piece: blades
- no serrations
- notch
- screw lock

German (Milne-Murray)

- Axis t. piece: blades
- no serrations
- no notch
- combined lock

Types

Raper

Special

Kielland

- Perineal curve
- Breech after coming head

- Lithotomy
- G. anesth
- sterilizati
- catheteriz

left handle

بالإبهام الشال في
النامية الشال

Right handle

بالإبهام العلوي في
النامية العلوي

locking

traction

intermittent
with ut. cont.

- routine
- episiotomy
- fundopерineal
exam.

Blade 1

- fenestrated
- 2 curves
- cephalic
- pelvic

Shank 2

- to allow locking
- outside ! vagina

lock 3

- min. pelvic curve
- anterior or posterior
- من 50-65 مل
- rotate 2
- علامة 2

longer

علامة علبة
non-eng.

sliding lock

علاقة بعد الـ
asynclitism

Handle 4

- 2 knobs
- تظاهر بوجه نافع او خطير
- وداجة وانت بتلف يقروا
- وقادة علبة علبة في
- الأخر O.A. ←

Rotation

- for DTA
- POP... PMP
- asynclitism

ceph. curve looks
original ... anteriorly
direct ... ceph. curve looks
posteriorly
Wandering ... american
درب علبة وعمرن شله

Fraction

Actions

- compression
- vectis action

- x lever action
- x stim. of ut. cont.
- x dilat. of cx

- 1) ant. 1st
- 2) post 2nd
- 3) connect asynclitism
- 4) Rotation
- 5) traction

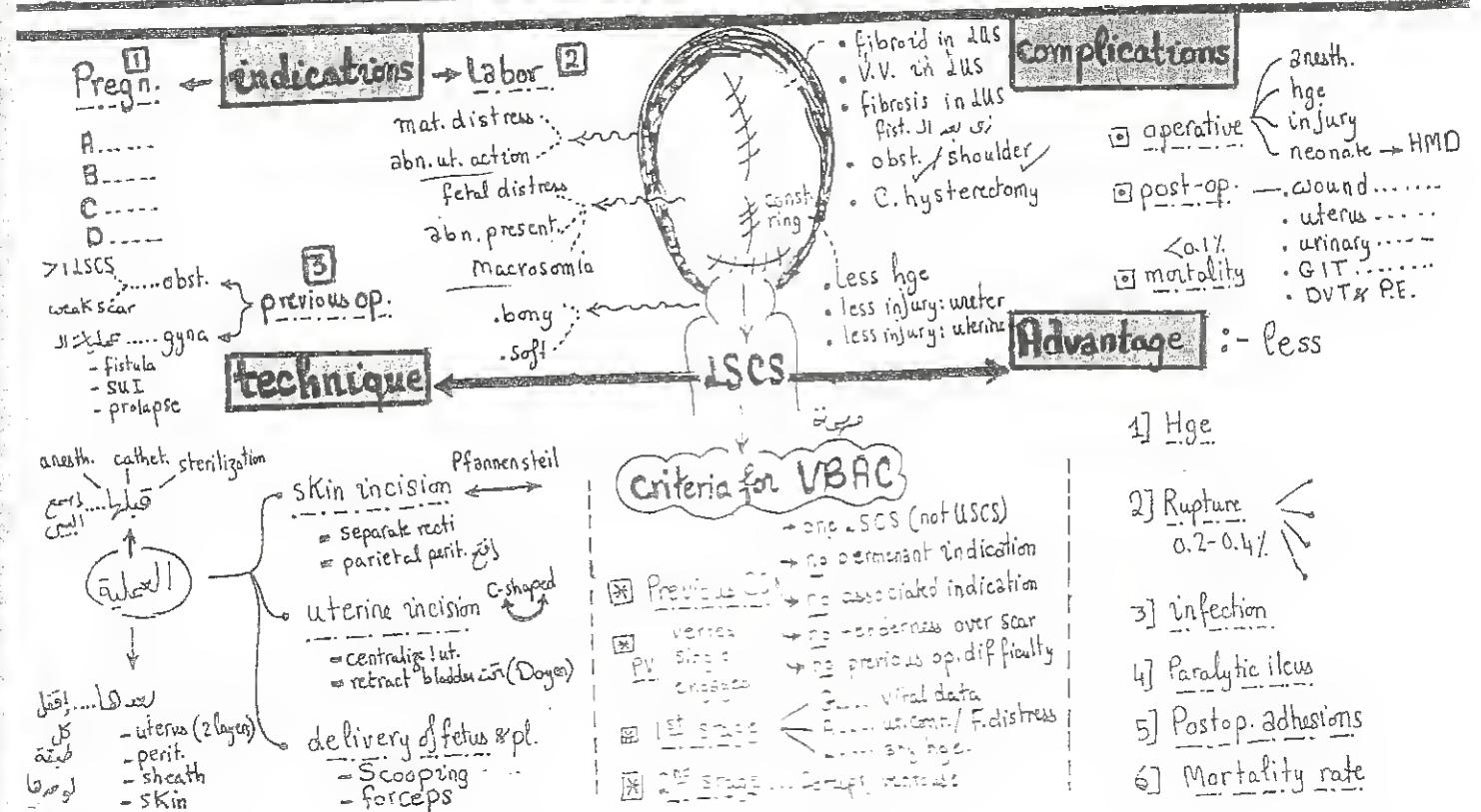
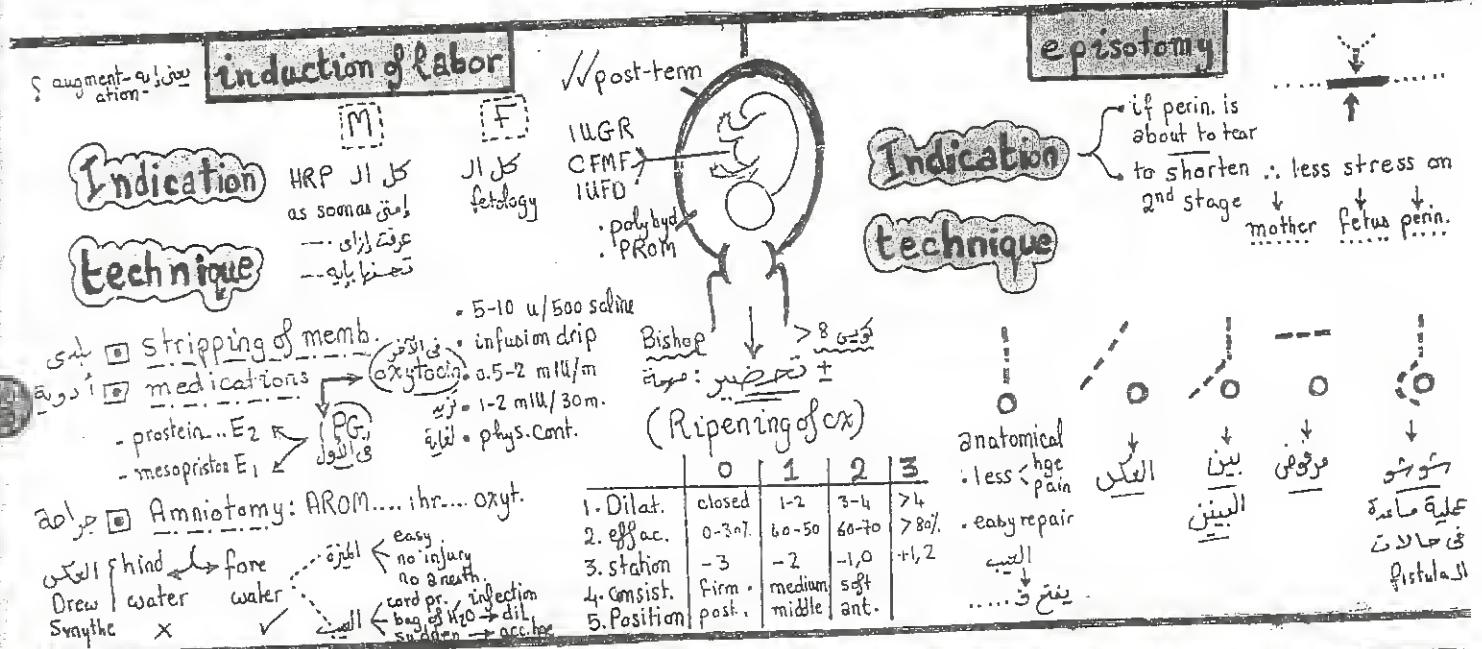
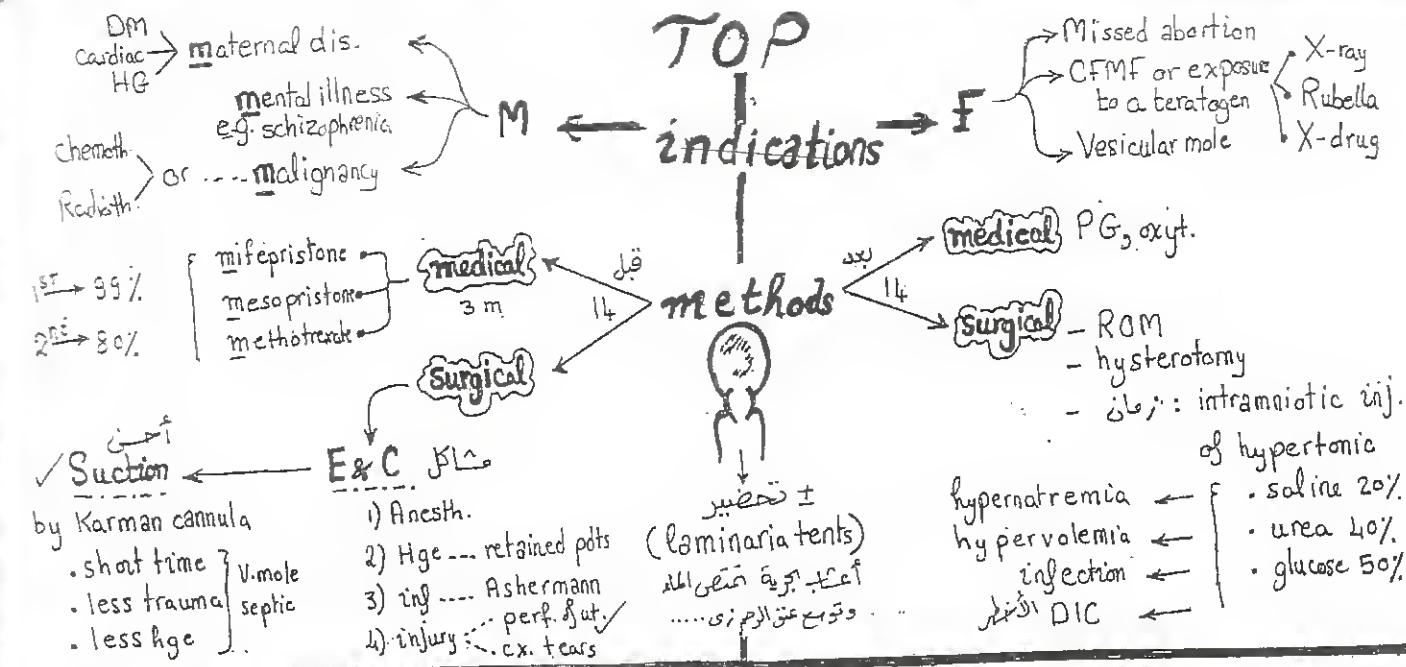
- should be applied with pelvic axis
- down & back ---- down & forwards

- This may be helped by

5 Axis traction piece X

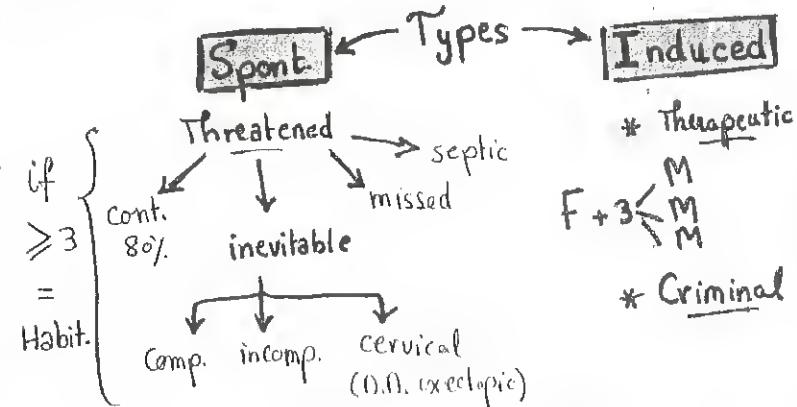
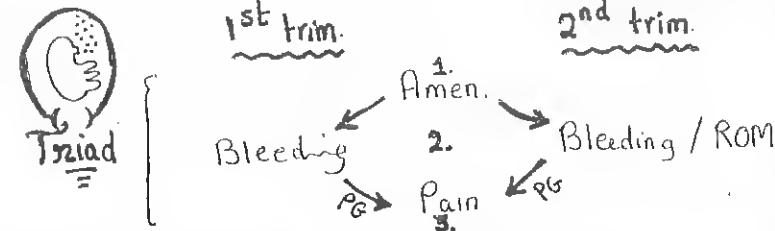
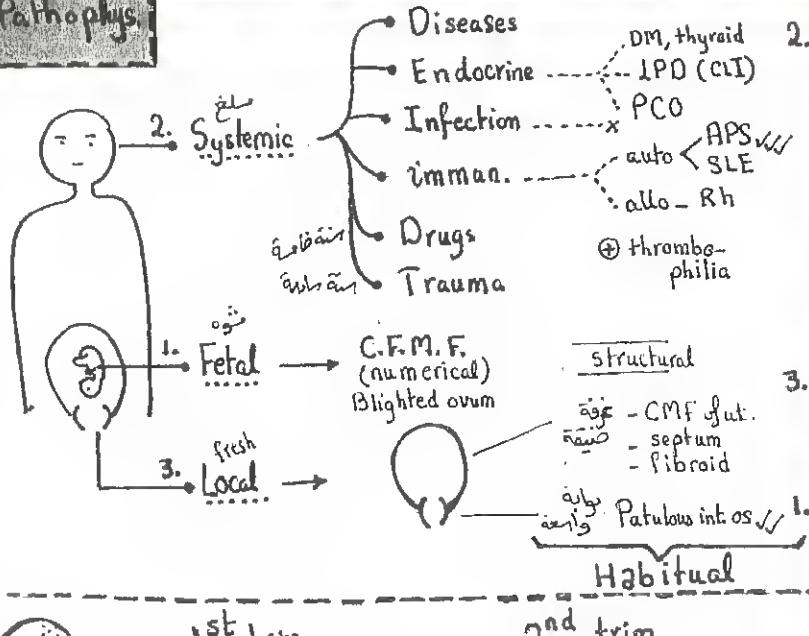
- Replaced now by Pajot maneuver

Indications	Comp	Application	level	Results
1] M. distress HRP to shorten 2 nd stage prolonged exhausted mal present. 1 st mina CPD rigid perin	1] Maternal - injury genital tract - hge Prolaps, SII, fistula - infection	• cephalic x • pelvic x • cephalopelvic Here is position is < Cep (cephalopelvic size, AP size) = 75°	High x mid low	1] Elective prophylactic f. after 20 min. from exdil to + M. & F. distress
2] F. distress IUGR with fully dil. cx & engaged head.	2] Fetal - injury (forceps marks) - hge - infection - distress - death.	zero.... +2.... +3.... +4.... +5....	outlet after creasing no need to separate! labbia to see head	2] Trial (tentative) تجربة مراعاة شتات CPD ← 3] Failed عاجز غمالتل ← يكرهها زمرة أكـ فيه CPD : جـ جـ كـ كـ

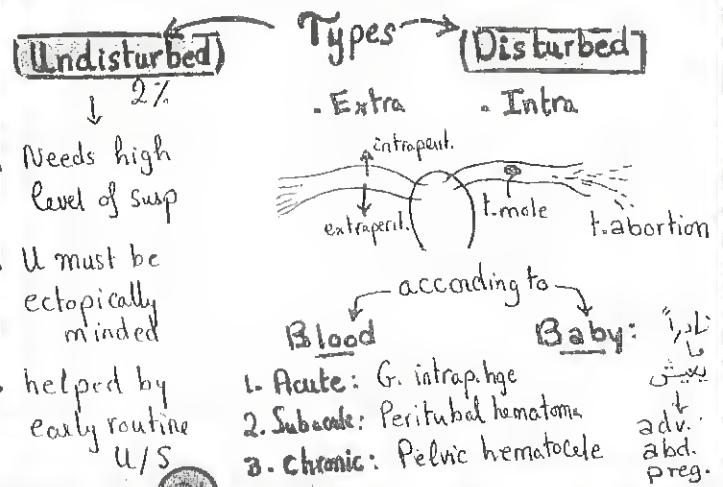
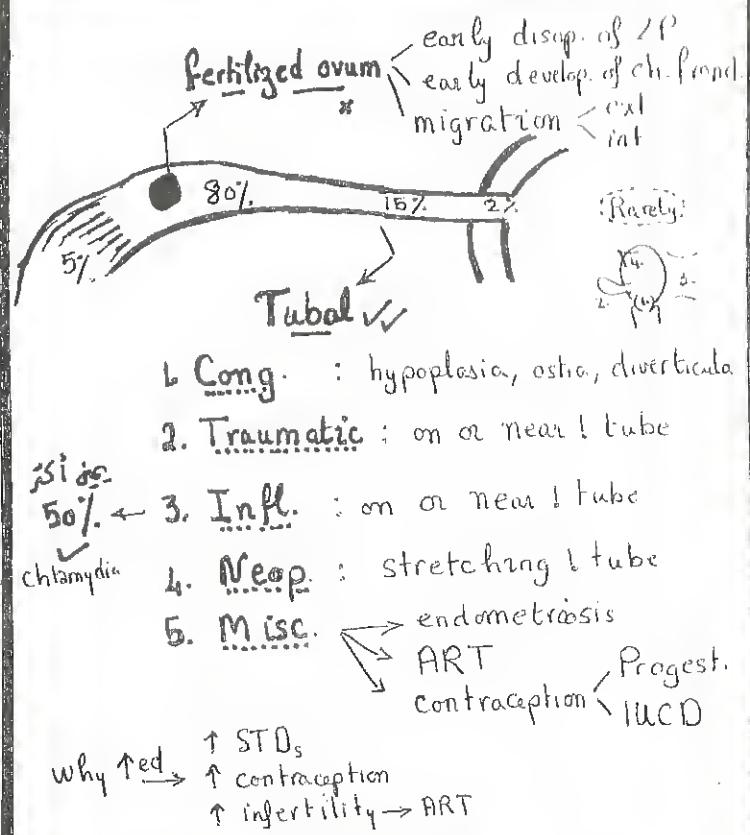


Etiology Types

Pathophys.



Ectopic 1-3%



V. mole 1/1000

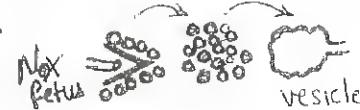
11 benign tumor of trophoblast
acc. by troph. proliferation
hydropic deg. of ch. villi

Androgenesis

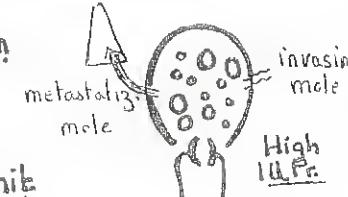
Maternal chromosomes disappeared



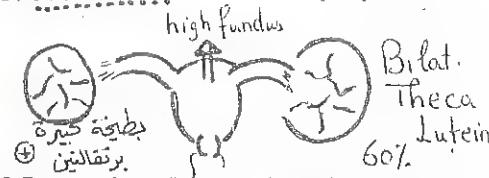
1. Fertilization



2. Fixation



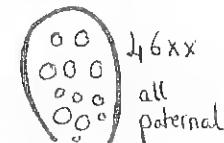
3. Functional unit



Types

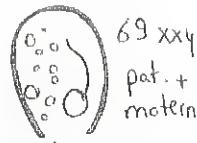
Complete

more common



Incomplete

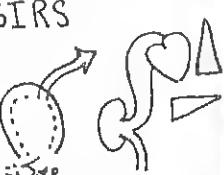
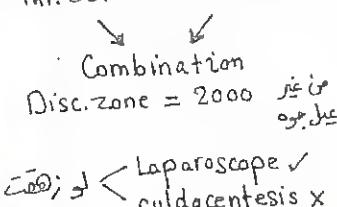
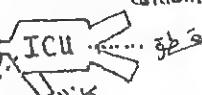
Rare



malig. 10-20%

malig. V. rare.

Threatened Inevitable Missed Septic Undist. Disturb. V. mole

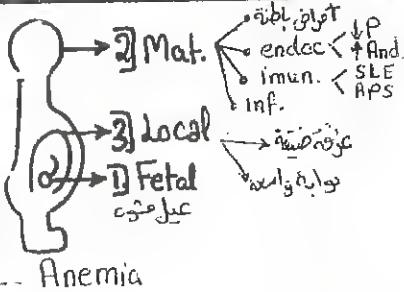
Def.	Partial separation of fert. ovum from ut. wall	comp. separation \downarrow fetal expulsion	Retained non-viable fetus	Super inf. \rightarrow G+ve: GBS G-ve: E. coli Aner: clostr.	early diagnosis \leftarrow rupture	Rupture occurred	Benign GTD	
Sympt.				All are present followed by sympt. of inf. \rightarrow FAHM-R \rightarrow cont. lower abd pain \rightarrow offensive disch.	short period of amen. usually one missed period - slight pain - no bleeding	short / absent - sudden severe pain \rightarrow collapse - no/ slight bl.	Amen. (but no f. kicks) - BL + vesicles (diagnostic) - Pain \leftarrow dull aching + acute ?? abd. sharp	
Signs	1. G: signs of preg. = F.L. 3. PV: closed	Pallor/shock = F.L. cx: opened	No signs of preg. \downarrow F.L. cx: \leftarrow closed \pm Prune juice	Toxic look Tender uterus Pelvic abscess/physometra	- Signs of preg. - uterus slight \uparrow - mild tenderness or small adnexal swelling	 - Shock not proport. to ext. bl. - T, R, RT \leftarrow shifting Cullen sign - Tender adnexum = jumping sign ✓	- Pallor / shock + comp. - ut \rightarrow F.L \leftarrow doughy twins bilat 11 gest - vesicles	
Inv.	1. HCG: +ve: doubles/2d. U/S \rightarrow etiology \rightarrow Comp. +ve \rightarrow TV 5 wk \rightarrow TA 7 wk \rightarrow Sonicaid 10	clinically diagnosed \leftarrow U/S \leftarrow Comp. incomp.	\rightarrow no doubling \rightarrow no fetal pulsation \rightarrow Fibrinogen ✓	U/S \leftarrow dead fetus incomp. abortion \rightarrow blood: ESR, TLC \rightarrow high vag. swab \rightarrow DIC... Renal funct.	B-HGG subnormal rise < 667 . thr. ab.	TVUS small sac outside ut. C.L. + AriaStella	Clinically diagnosed \rightarrow Hct level	1. B-HGG \rightarrow no normal for full pregnancy - Hct \downarrow normal return - X-ray \leftarrow urinary tract, no fetal skeleton - Chest - Cannon ball
Comp.	* Continues 70-80% * OR \downarrow inf. dies BL↑	- Hge - inf. - injury perforation in D&C	- DIC < 100 mg% \rightarrow slowly 50/wk heparin may be given (twins) - Sepsis	SIRS 	Combination Disc. zone = 2000  \leftarrow Laparoscope ✓ culdacentesis x	Shock	General - PIH < 20 wk - HG - thyrotox. - Pul. emb. Local - Hge, inf. - Malig. - Perforation - Recurrence	
Ht.	Conservation - Rest 3 \leftarrow Fe anti-d 3 \leftarrow anti-PG 3 \leftarrow Progest. β_2 agonist D&C TOP if ff	Resuscit. 1st: suction \leftarrow oxyt. D&C \leftarrow PG 3 \leftarrow Progest. β_2 agonist D&C TOP if ff	According to fibrinogen 100 \downarrow TOP \uparrow 1st 2nd correct first - fibrinogen - FFP - Fresh blood bl.	1 elevate G. cond. Antibiotics \leftarrow high dose combin.  2 TOP \leftarrow suction hysterotomy hysterect. intab 3 Comp. \leftarrow D&C	Laparoscopy ✓ or Laparotomy \downarrow - Salpingectomy ✓ - Salpingotomy \leftarrow PG mild cases one tube present Medical = methotrexate \leftarrow < 3cm, < 3000 mg/m ² I.M. no O pulsation villally stable	Resuscit. \downarrow Laparotomy \downarrow Salpingectomy	Resuscit. \downarrow suction evac. \downarrow then \leftarrow ecblitics curretage Follow up 6-12 m. 2-3 m. C.O.C. (no IUCD) wk -ve -ve -ve (month)	

Bleeding in early preg

Mild
 spots
 pain

Threatened
 ab.

Undisturbed
 ect.



Corresponds
 cx closed

H. → Repeat
 B-HCG
 TVS
 Hct

3 tocolytics
 Anti-PG
 Progest.

3 Fe
 Rest
 Anti-D

ab. abt.
 endoc. + And.
 imun. SLE
 inf. APS

Cong. DES
 tr. on/near
 infl. on/near
 Neop. stretch
 Misc. IUGD



- 1) Acute add. → dist.
- 2) Discovery of mass
- 3) Discovery of fetus
- 4) Discrimination zone
 = $2000/\text{TVS}$

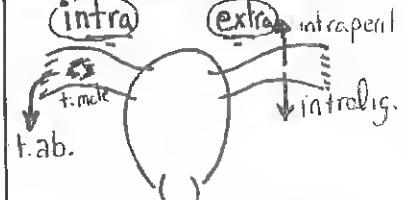
lapar.
 laparoscopy
 → salpingotomy
 → salpingostomy
 → salpingectomy

Me. Methotrexate
 < 3000
 < 3cm
 vitally stable

Acute abdomen

1 Acutely
 disturbed

+ shock



- Shock # ext. hge
- T, R, RT < Cullen's sign
- Shifting dull
- Jumping sign

No need
 clinical
 severe → mild → chronic
 ↓ ↓ ↓
 acutely dist. sub-acute. collect. in D-pouch
 ↓ ↓ ↓
 G. Intrapen. Peri-tubal Pelvic hematocrit present
 hge. hemat. ↑ ↑ ↑
 shocked. ↑ ↑ ↑

- 1 Resuscit
 → Wide bore
 Call + help
- 2 Laparotomy
 → Salpingectomy

2 Septic
 Abortion

+ fever

Org. G-ve
 aneurobe

route ex. endog. hemat.

(PFA) - criminal ab.

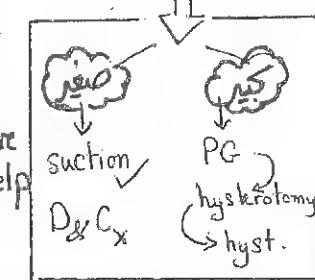
FAHM-R
 cont. dull pain
 tender
 + pelvic abscess

calc.



elevation of g. Cond.

↓ ↓ fever



TOP (op.theatre)

3 Vesicular
 Mole

complicated
 T. & cyst

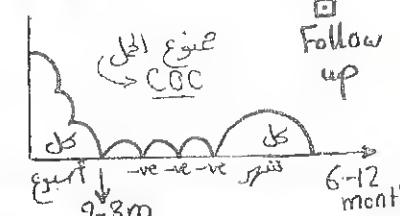
→ ~~all~~ : 46xx all paternal
 "Androgenesis"

large
 + + +
 Horm.

- 1) Benign
- 2) invasive
- 3) metastasizing

chest x-ray "cannon ball"
 B-HCG
 U/S snowstorm
 Honeycomb

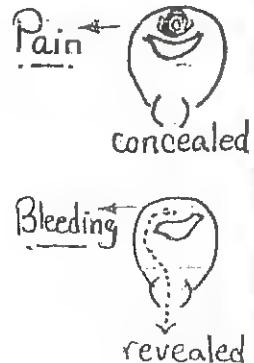
العلاج حسب النوبة
 مصورة
 كبيرة
 سuction
 ecg
 D&C
 hysteroscopy





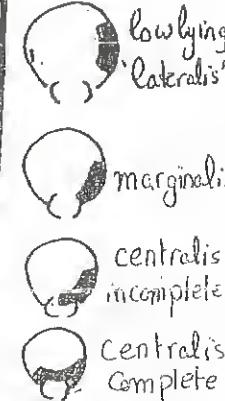
V.D. ^{WIC}
 Cephalic
 Contractions
 DIC
 AROM \rightarrow Ictal
 \rightarrow shock +

1. PdF albumin
2. Dis. U/S
3. Comp. FDPs



Placenta

acc. \leftrightarrow previa



Bleeding

painless

causless

Recurrent

fresh

U/S

C.S. ^{WIC}

\rightarrow if

mild bleed \rightarrow minor degree

placental insuff

FWB \rightarrow (H) \rightarrow Aspirin + heparin

TOP once mature or distressed.

AFI 5 <

pl. insuff \rightarrow due to C.S. \rightarrow WIC

Fetus
 \rightarrow IUGR macro

obstructed

exhausted, painful

Ruptured

collapsed, calm

\rightarrow C.S.

D.M.

PdF

\rightarrow rep. vessel dis. \oplus PG

Sympt.

tendes severity \leftarrow of Comp. epig. pain abdominal

Signs

B.P. $> 140/90$ Alb $> +1$ edema \rightarrow occult dry manifest.

Comp.

M] edclampsia, HELLP, acc.hge \rightarrow IUGR PTL IUFN

Inv.

M] albumin \oplus organ funct. tests

ttt

mild \rightarrow conserve till \leftarrow اذم \oplus اذم severe \rightarrow TOP \oplus MgSO₄ \oplus Anti-HTNs.

obee \oplus GMP

4P

PdF.

Sympt.

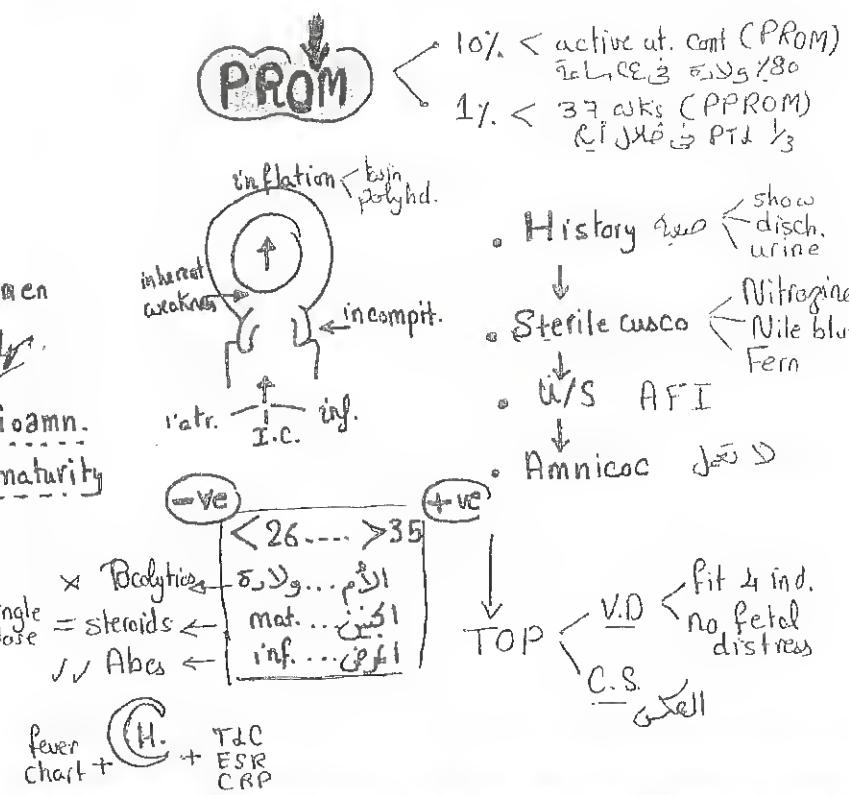
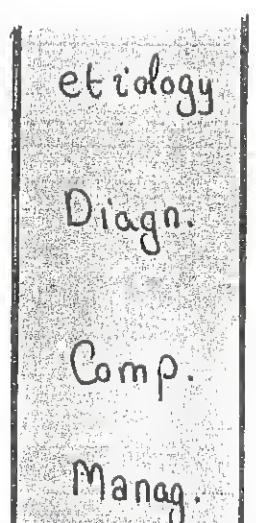
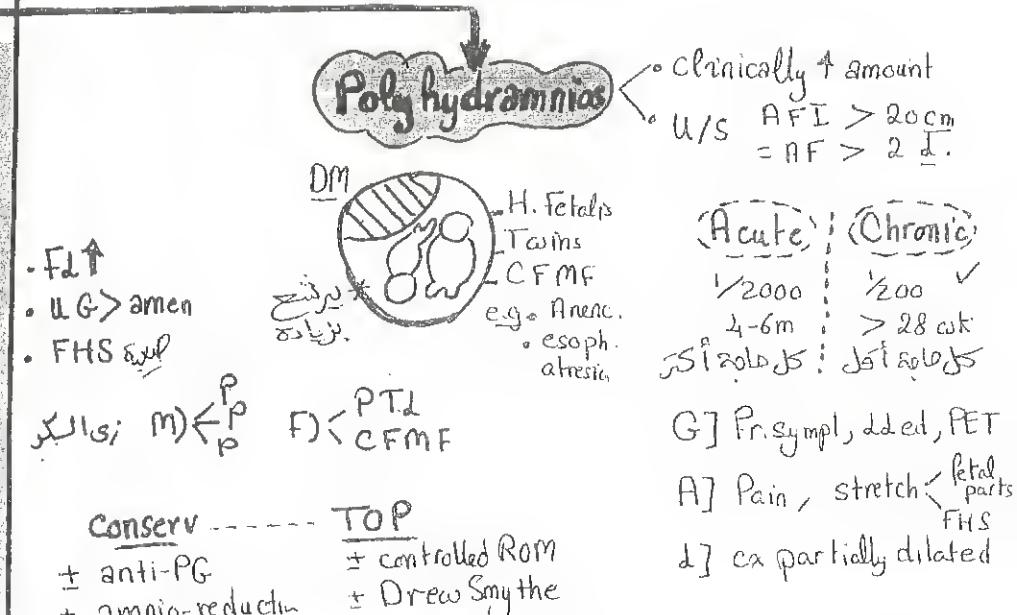
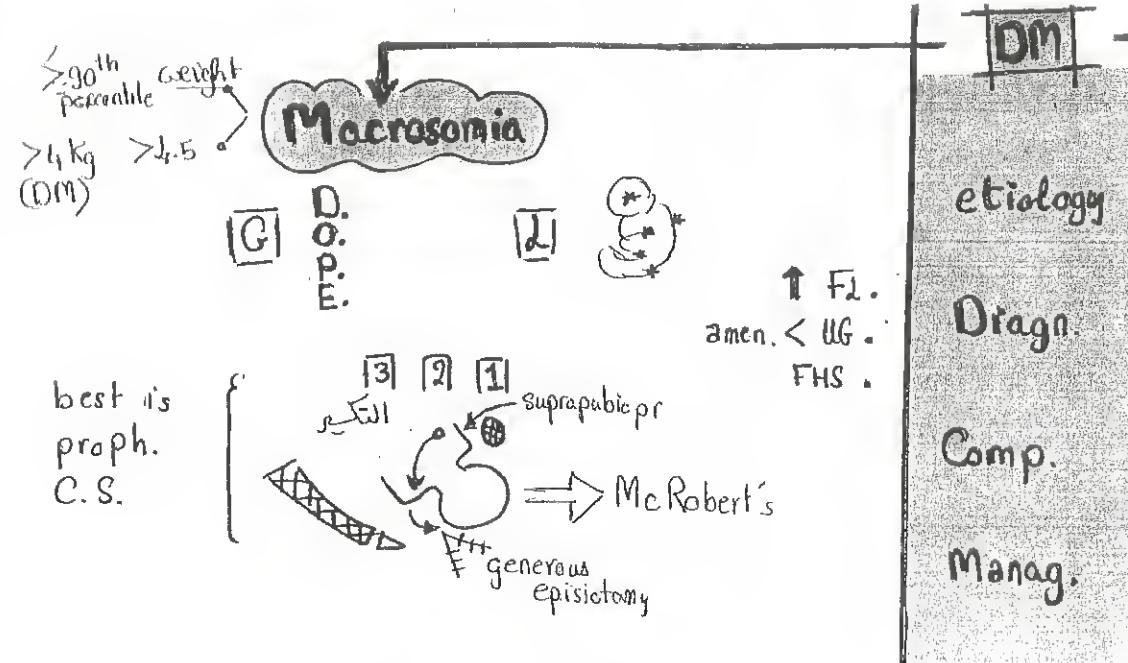
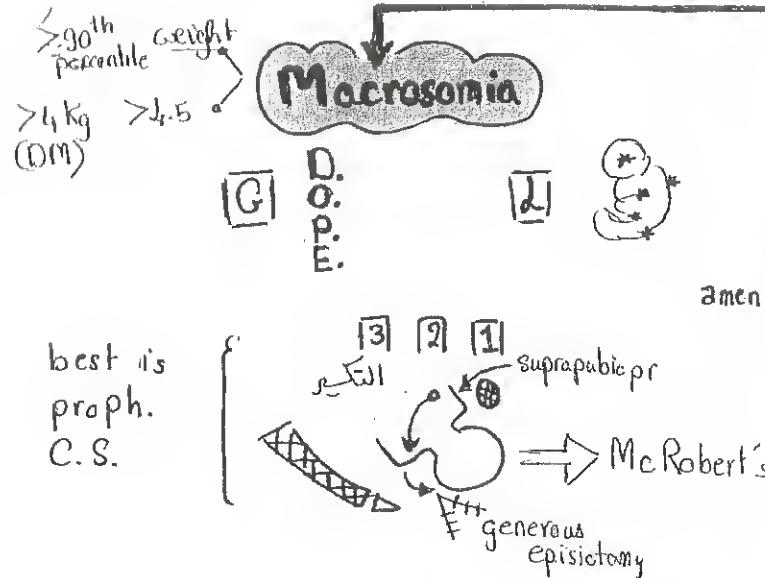
Comp.

$\frac{3}{3} \rightarrow$ NBP \rightarrow PS \leftarrow Preg. Parl. \rightarrow M] Peup.

3hr GTF \rightarrow confirm 1hr GTF screening

Pre concept. ANC \rightarrow 40 38 37
 \rightarrow IUGR inv. TOP. \oplus insulin inv. \oplus CS \oplus

ttt



Normal Pelvis

Contracted Pelvis

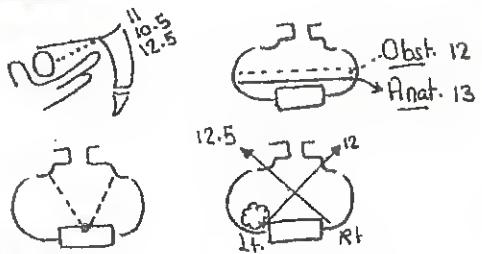
- inlet (shape)
- cavity (isch. sp.)
- outlet

Gynec. 50% Andr. 20%

Platy-pelvaid Flat 25% Antro-pelvaid 5%

- inlet project
- cavity not
- outlet wide narrow

Inlet

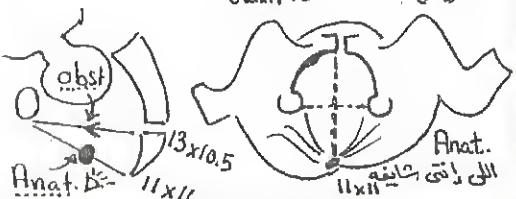


Cavity

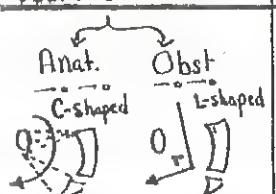
plane of greatest pelvic dimension → rotation

AP obl. Tr.
inlet 11 (0.5) ↑ 13
cav. ← 12 (1.5) →
outlet 13 ↓ 11 (0.5)

Outlet



Pelvic axis



Isch. spines 7

- uterus (prolaps)
- fetus (engaged)
- fetus
- ureter
- fetus
- C. surf. plane of least anat. pud. n. block
- Pelvic floor

Comp.

- M. → F.
- Preg. ← malpres. non-eng. 1st. Prolong. PROM
- Part ← 2nd. obst. 3rd. PPhge
- Peup. ... sepsis
- injury
- hge inf.
- hypoxia
- death

C.P.D.

Types

- No → V.D. ✓
- Moderate (1st CPD) → Trial of lab. ✓
- Marked (2nd CPD) → C.S. ✓

Diagnosis

History

Ex. am.

spine: signs of old rickets
L.L.:

① short < 150cm
② dystocia syndrome

2] A - malpresent.
- non-engagrant

3] I - ext < sub-pubic angle
Bitub. diam.

Pelvimetry
int. isch. spine ✓
Sacrosciatic notch
Diagonal conj. ?!

Inu.:

- * U/S esp in Breech ← HC occipitofr.
- * Radiolog. pelvimetry x

Comp. → C.S. ?!

Comp. who

- OLd. → non-healthy
- non vertex pr.
- 2nd. CPD
- general causes for C-S
- unfit for induction
- F/M distress
- Ass. obst. ind.

37

Obst. Labor

Etiology

- عي ضيق
- Mal pr. (large diam) ←
- Macrosom ←
- Soft: general local e.g. hydroceph.
- Locked twin (rare) ←

Diagnosis

History

Prolonged lab.

PROM

cause

CPD

phys. ret. ring.

pub. ring.

trial of lab. ?!

Manag.

Proph. ✓

early diag. of CPD

signs & sympt. of obst.

Active

C.S. ↓

head deeply engag.

duLS ballooned

→ injury

V.D. →

exploration of birth canal under

anesth. → excl. trauma

Forcips →

تفاق

Comp. ↓

M. ↓

1st ...

Part 2nd ...

3rd ...

Peup. ...

Rupt. ut.

5 F. ...

Necrotic

vesicov. fistula

Obst. Labor

Etiology

- Preg. Spont. if weak star e.g. USCS Myomectomy
- Traum. if obst. labor esp if improper use of ecclotics to augment.
- Forceps if obst. labor
- Fund press
- Breech
- Est. I. in 2nd p. V

Diagnosis

G. - collapsed - calm

A. - acute abd. T, R, RT

L. - easy felt - vag. bleed

upward reversion of presenting part

Manag.

Proph. ✓

Partogram for early detection of CPD

Proper use for ecclotics, forceps

Proper manag. of previous scar

only one ICS → V.D.

Active

✓ Hysterect. Repair x?!

Age, parity ↑ +

Bleeding severe controlled

+ tear extensive limited

F. ↑ PNMRA

1) ↑ MMR

2) Hysterect. possibility of uterine injury

3) Repair → rupt. ut. in next preg.

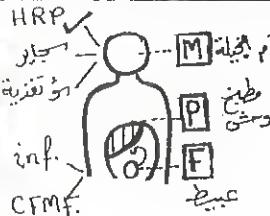
IUGR 5%

Def.

- B.W. < 10th percentile
- Pl. insuff. < maternal is d.t.
- > 4.5 or > 4 (D.M.)

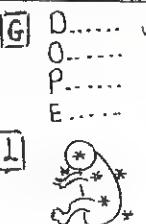
Etiology

"uliopathic
2/3 cases"



Macrosom 5%

- B.W. > 90th p.
- > 4.5 or > 4 (D.M.)



C/P

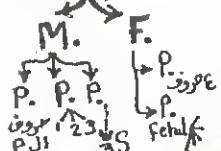
G ↓ weight < 50 Kg
A → FL → UG → FHS
I ↓ weight < 28 wks
 - < amen. (gravidogram)
 - oligohyd. (abd. girth)
 - + f. distress
 { previous history }
 { presence of etiology }

Inv.

A. - GTT, Storcheb
 diagnosed **U/S** 2 types
B. **U/S** < F, symet.
C. **U/S** < F, asymet.
 * EGA > U/S **U/S** < F, M, gla
 * serial U/S

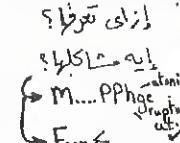
- GTT
 x 2 types
 - **U/S**
 esp. T.A.D.

Comp.



Shoulder dyst.

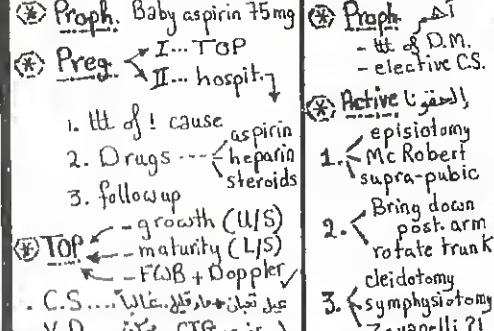
- Preg. IUGR
- labor < HIE
- MAS: ميادن فلطة
- Fetus: hypo-glycemia, calcemia, thermia, polyc. Jaund, DVT



ttt

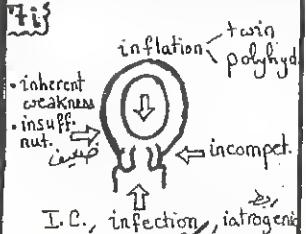
1. Prophylaxis

④ Proph. Baby aspirin 75mg
 ④ Preg. I...TOP
 II...hospit.
 1. Ht of 1 cause aspirin
 2. Drugs heparin, steroids
 3. follow up growth (U/S)
 ④ TOP maturity (L/S)
 - FBW + Doppler
 . C.S....
 . V.D....
 . CTG....



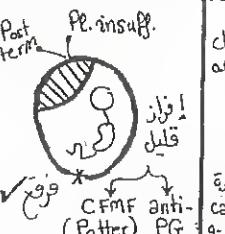
PROM 1-10%

- < active ut. cont. (PROM)
- > 80% لادة
- < 37 wks (P. PROM)
- PTL 3/4 لادة



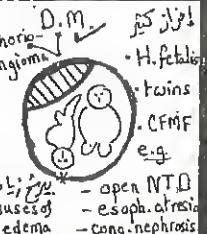
Oligo 0.5%

- * clinically ↓ amount
- * U/S < AF < 0.5L
- AFI < 5cm



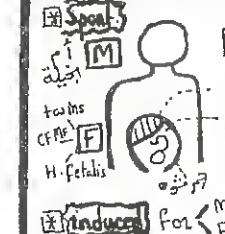
Poly 0.5%

- * clinically ↑ amount
- * U/S < AF > 2L
- AFI > 20cm



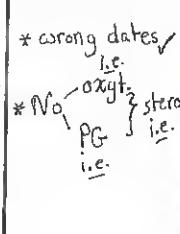
Preterm 5-10%

- labor < 37 wks
- WT > 6-8/hr
- > 2cm dif.
- > 4/20m.
- > 80% eff.



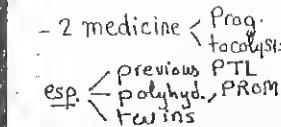
Postterm 5-10%

- Preg. > 42nd wks
- Post. Oligo mature < IUGR



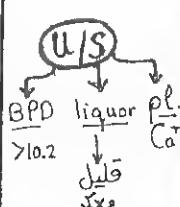
1. Pts at risk

- Good ANC < inf.
- Sedative, no SI, rest
- Serial < TVUS
- fibronectin



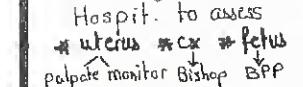
↓ weight.

- abd. girth
- عذبة العان
- فلاحة العان
- أذبة العان



2. Threatened PTL

- false d. pain ± backache
- change of ccc of disch.



3. Established PTL

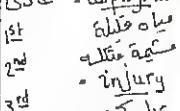
- Hospit. to assess



- uterus
- ++
- fetus



- palpate monitor Bishop BPP



- 1st
- 2nd
- 3rd

- injury



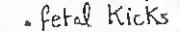
- 40wks



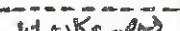
- FBW twice/wk



- fetal kicks



- 41wks



- fit



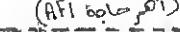
- not



- (AFI 100)



- 42wks



- V.D.



- C.S.



- PG → AROM



- oxyt.



Intra-partum "FWB"

1 Clinical

- ↳ intermittent gusc (Pinard)
 - 1st ... 30 m.
 - 2nd ... 5 m.
- heard after ut. cont. for 30 sec
- ↳ A. F. colour
 - Meconium stained (distress)
 - Normal in: breech, oligo, postdate

2 Electronic

- ↳ external
- ↳ internal ... Labor
 - B₂B ext. ... ext. قدرتی
 - ROM, ceph, cx dil ...
 - inf. injury ...

3 Biochemical

- ↳ fetal Scalp Ph
 - N ... > 7.25
 - borderline ... 7.2-7.25
 - distress ... < 7.2 ... C.S.
- ↳ fetal pulse oximetry

acute fetal distress

- change pt. position
- stop ecobolies (± start tocolytic)
- give fluid
- if still distressed
 - if < full dil: C.S. (if < full dil)
 - if > full dil: vent. if engaged

IUFD

- ↳ Antenatal: - IUGR
- ↳ Intranatal: - + fetal trauma
- ↳ Postnatal: - + PTD

PNMR = $\frac{\text{still birth + neonatal death}}{\text{total birth in same year}} \times 1000$

"Tocolytics"

1 Types

long term ... widely used ... but no improvement in neon. outcome
short term ... 1-8-72 hrs ... till steroid act & transfer to hospit.

2 Indications

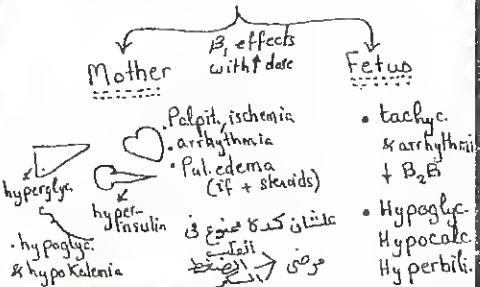
- Mother → distress ... PET
- Fetus → distress ... IUGR
- dis. (PTL) → progress ... > 4 cm

contraind. for prolongation
Fully effaced ROM

3 β_2 agonists

- Ritodrine HCl
- Yutopar

50 mg ampoule / titration till contr. disappear ...



Anti-PG

- oral Brufen 25 mg 1x4
- rectal Profenid, indocid 100 mg 1x2
- side effects
 - Mother: stomach ulcer
 - Fetus: premat. closure of ductus art., oligohydramn.

indic ... all HRP ... enhance fetal release of surfactant
contraind ... DM, HTN, poor control, PROM, inf.

Dose (24 mg) ... Beta 12 mg/24 hr ... Dexa 6 mg/12 hr

Method ... multiple

a) < 28 ... 34 > 34

b) 34 > 34

c) 34 > 34

d) 34 > 34

e) 34 > 34

f) 34 > 34

g) 34 > 34

h) 34 > 34

i) 34 > 34

j) 34 > 34

k) 34 > 34

l) 34 > 34

m) 34 > 34

n) 34 > 34

o) 34 > 34

p) 34 > 34

q) 34 > 34

r) 34 > 34

s) 34 > 34

t) 34 > 34

u) 34 > 34

v) 34 > 34

w) 34 > 34

x) 34 > 34

y) 34 > 34

z) 34 > 34

aa) 34 > 34

bb) 34 > 34

cc) 34 > 34

dd) 34 > 34

ee) 34 > 34

ff) 34 > 34

gg) 34 > 34

hh) 34 > 34

ii) 34 > 34

jj) 34 > 34

kk) 34 > 34

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pp) 34 > 34

qq) 34 > 34

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uu) 34 > 34

vv) 34 > 34

ww) 34 > 34

xx) 34 > 34

yy) 34 > 34

zz) 34 > 34

aa) 34 > 34

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ss) 34 > 34

tt) 34 > 34

uu) 34 > 34

vv) 34 > 34

ww) 34 > 34

xx) 34 > 34

yy) 34 > 34

zz) 34 > 34

aa) 34 > 34

bb) 34 > 34

cc) 34 > 34

dd) 34 > 34

ee) 34 > 34

ff) 34 > 34

gg) 34 > 34

hh) 34 > 34

ii) 34 > 34

jj) 34 > 34

kk) 34 > 34

ll) 34 > 34

mm) 34 > 34

nn) 34 > 34

oo) 34 > 34

pp) 34 > 34

qq) 34 > 34

rr) 34 > 34

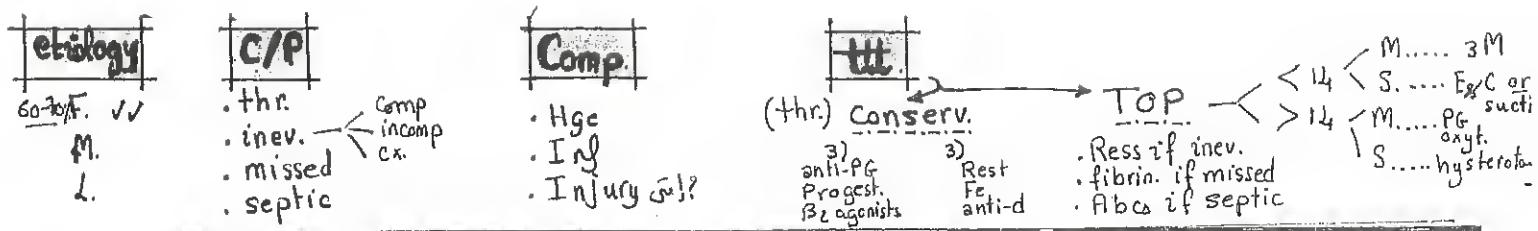
ss) 34 > 34

tt) 34 > 34

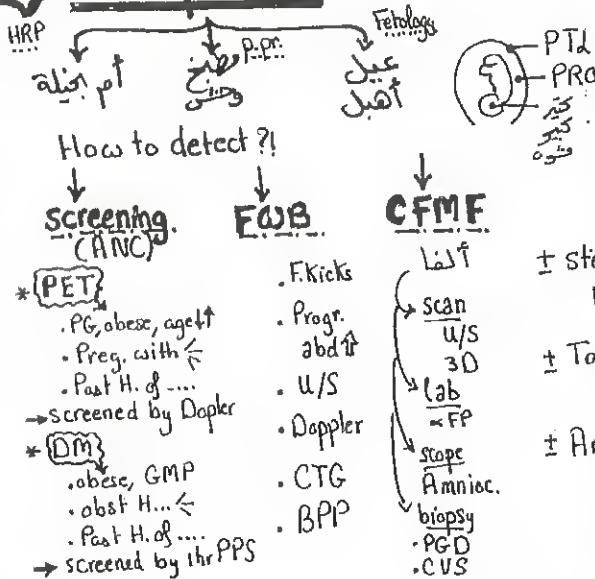
fetal loss

Early

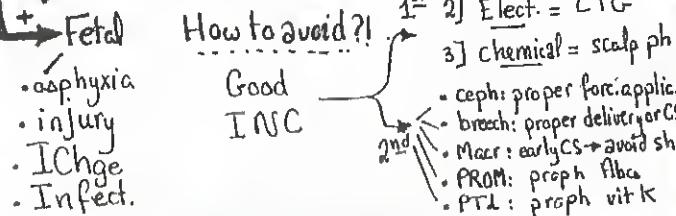
Late



1. Ante-partum



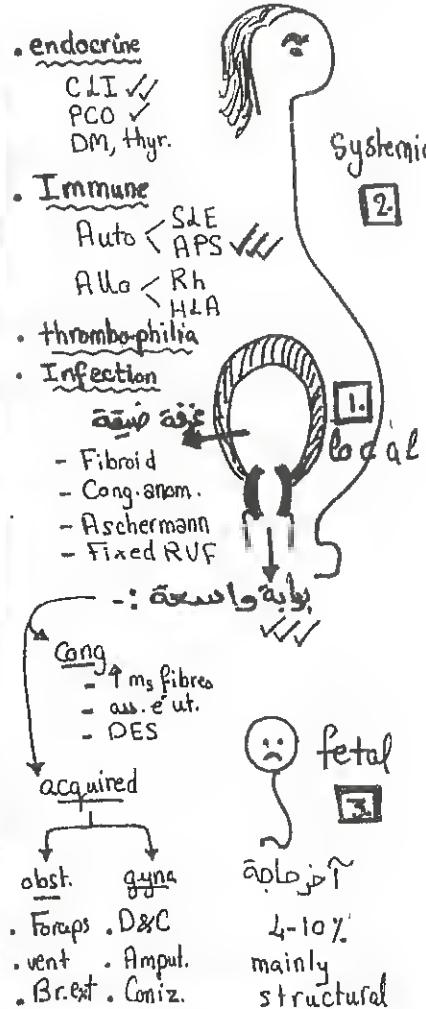
2. Intra-partum



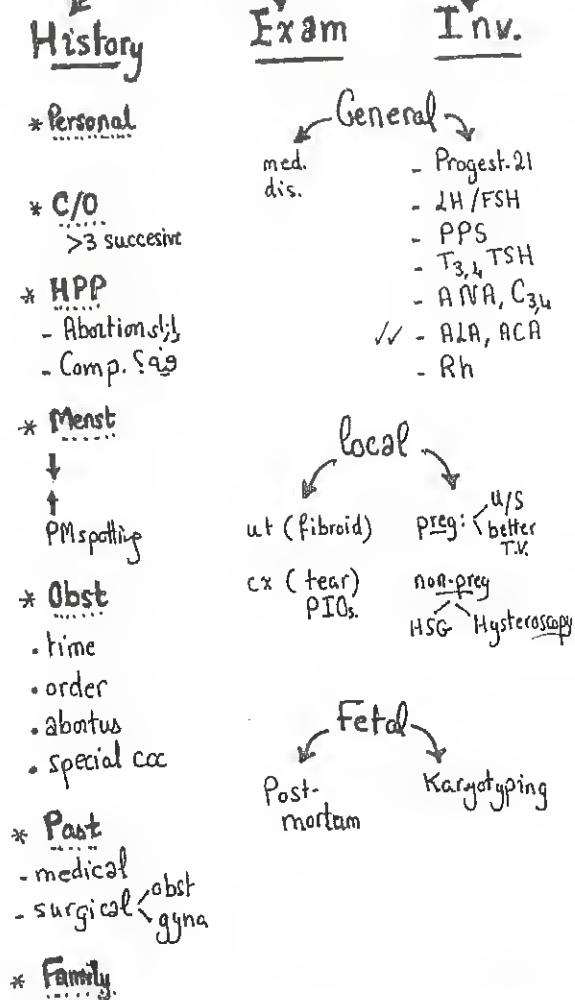
3. Post-partum

APGAR

ABCDE



Assessment



ttt

general

- Reassurance
- more rest
- vit., Fe
- stop smoke, alcohol

(specific)

* PIos

Abd. cerc. SchirodKar McDonald

int. os

dissect bl

highest part

* APS

- Baby aspirin 75mg
- heparin 5000 u/12 or LMWH 30-40 m.

(idiopathic)

50%

imperical

Progest. folic acid + heparin

menst. obst

1. LMP

لهم فارجعه
ما حاتمه
فقط الموراة كانت بأمرك؟
حدث متى
عنة الأفلاج وعنه
أول يوم
ما حاتمه
ما حاتمه
ما حاتمه

ماكنتش فيهم أى
استخدام تجاهة معن
الجمل

2. EDD: Naegel's rule 

$$\omega k = 7d$$

$$m = 4\omega k^2$$

$$trim = 13\omega k$$

القاعد

menst. gyna

1. **Menarche**

$$\text{المُبَايَةُ مُدُر} = 13 \text{ yrs}$$

2.
b/c

- * regular
- * sp. dysm. لَا يَفْعَلُ

3.

regular	فترة متقارنة	* Premenstr. spotting
p. dysm.	فترة متغير	* Midcycle spotting
MT	فترة قليلة	* Menstrual spotting
	الصفر، متلازماً بغير تضليل + صلبة	بين المenses والchorion
		فترة متغير بالمرحلة
		في يوم معين

History

Общ

٢- اوله ائمه
٣- اوله فی المیت
٤- اوله فی المستنقی
٥- اوله فی رایه بی

٤ - فقرة
الجمل عددت على
غيرها، يعني ما يكتب
فيه حقيقة وحمة
لادة رأى الله زرى
العنف أو الگر

ربيع طبع
کویں ۹-
جاء و لبت
البیں ۹-

جامعة فلسطين
جامعة فلسطين

2. Year	3. Place	4. Ante- partum	5. Duration	6. Onset	7. Mode of delivery	8. Post- Partum	9. Baby	10. Puerp.
1-		HTN	Term	Spont	• vaginal	P Phge	- boy/girl	- P. sepsis
2-		DM	- PTL	induced	± forceps		- alive, dead, incubate	- DUT
3-					± ventouse		- weight	
					• CS		- breast/	

Contraceptive

استه می دستی می خل قبل کرد ؟

العمل ده كام شر
كانت المعرفة منتظمة . مفتوحة

Investigations

Blood

- Hb → lower limit is 11 gm%.

Normally 12-16

but $\begin{cases} \text{RBCs} \uparrow 20-30\% \\ \text{plasma} \uparrow 40-50\% \end{cases}$ } physiolog. hemodilution

- FBS 60-90

1 hr < 140

2 hr < 120

RBS < 200

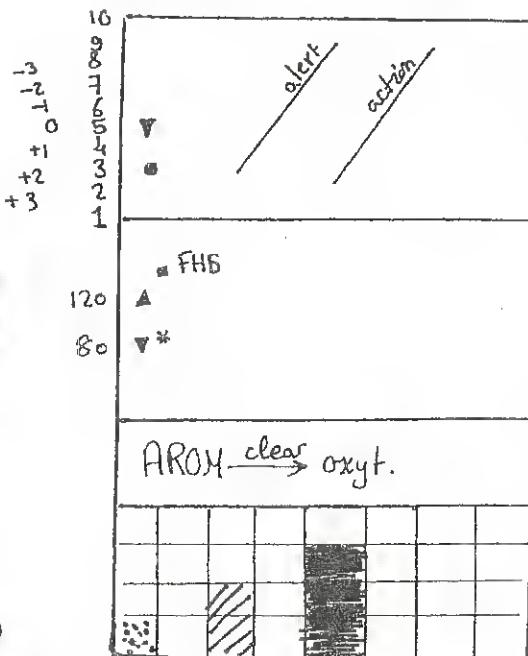
	Blood : Plasma	
FBS	90	105
1 hr	165	190
2 hr	145	165
3 hr	125	145

- Renal function tests

- creatinine 0.5 mg%.
- uric acid 3 mg%.
- BUN 8.5 mg%.

Urine

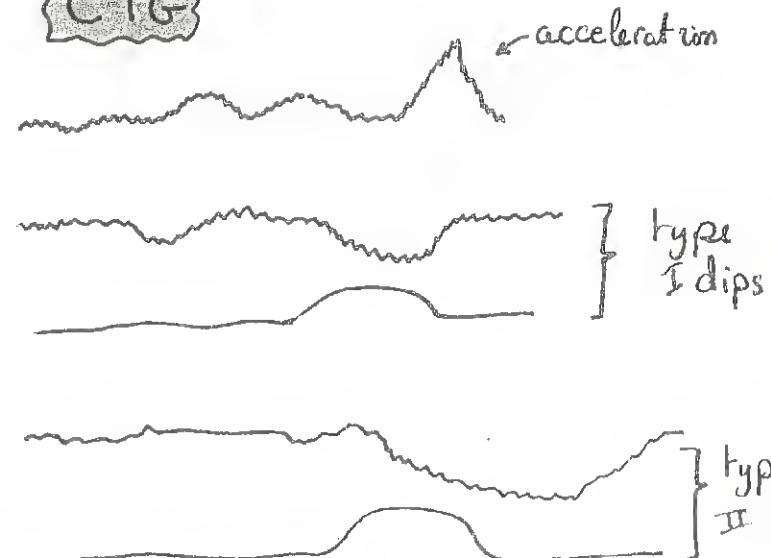
- Pus cells 1-2/HPF
- Some crystals/ epith. cells
- Glucosuria : normal in preg. $\begin{cases} \text{renal} \\ \text{alimentary} \end{cases}$
- Albuminuria : only if dis:-
 $\begin{cases} \downarrow \text{PET} \\ \approx 150 \text{ mg} \\ \text{normally} \end{cases}$
 - UTI
 - orthostatic
 - false (contamination)



Final diagnosis

- Name - age
- Parity - gest. age
- ceph. / breech
- labor / not
- obst. comp.
- medical comp

CTG



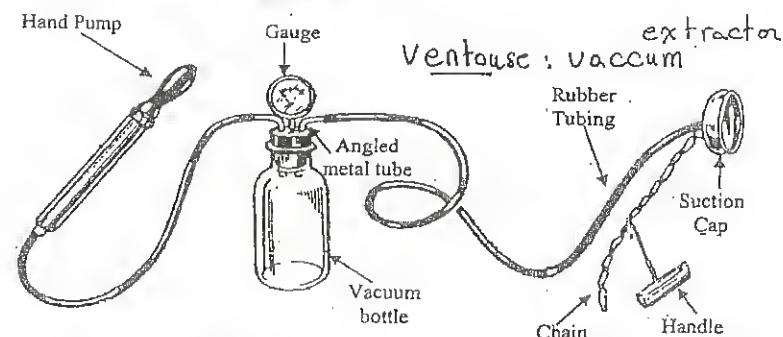
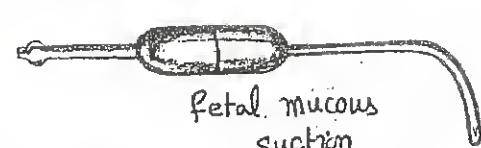
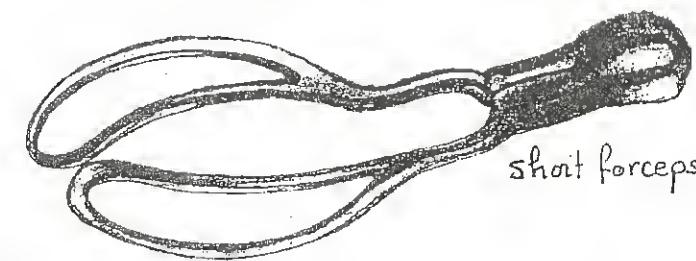
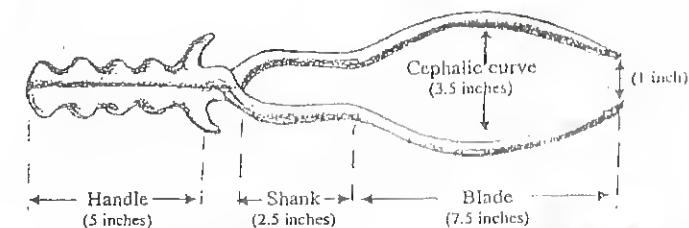
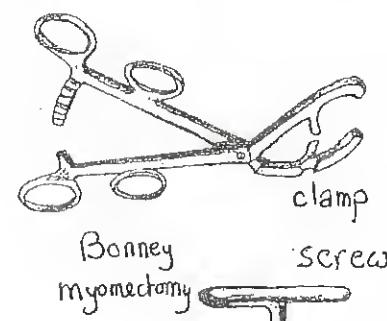
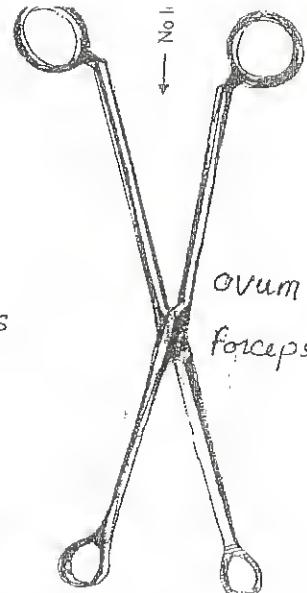
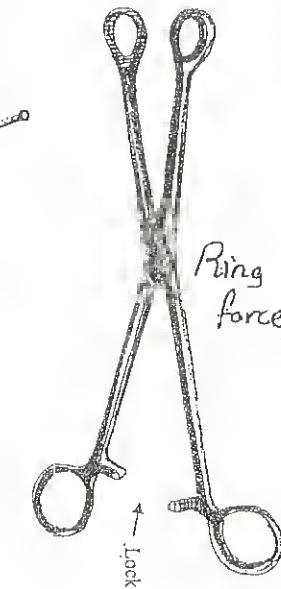
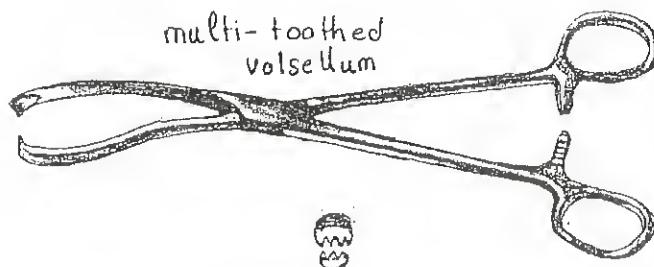
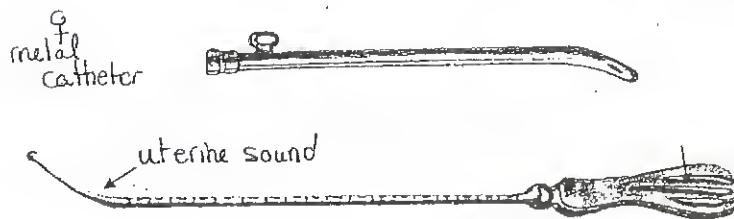
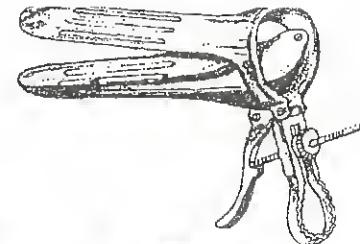
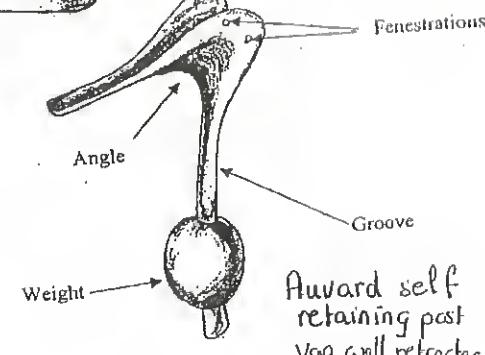
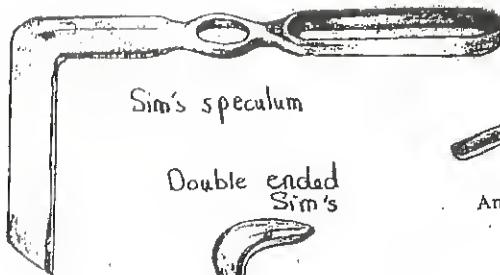
Fetal Kick chart

"Cardiff"
Count to 10

	8	10	12	2	4	6
Sat.	→					
Sun.	→					
Mon.	→					
Tue.	→					
Wed.	→					
Thur.	→					

Semen

macrosc.	microsc.
-	-
- viscid	Count $> 20 \text{ m/ml}$
- 2-4 ml	morph. $> 30\%$ norm.
- ccc odor	motility $> 50\%$ forw.
- ph alk. 7.2-7.8	Pus cells $< 1-2/\text{HPF}$



→ threatened + small retroplacental hematoma

→ habitual ab.

> 3 successive
patulous: $> 1\text{ cm}$
عفن الأدوية:

imperical

- progestrone

- Heparin
+ aspirin

- folic acid

CDI
APS
thromboph.

3-
2-
1-
1- McDonald
2- SchirodKar
3- Abd.

ROM
inj. of bl > اجرة
Ab. infect > انتف
PTL > irritat.

P: previa

: فوتاً / اتاي
Painless, causeless
recurrent, fresh

minor { 1- parietalis: low-lying
2- marginalis
major { 3- partial] centralis
4- total

الآنف
Fetal
Maternal
Preg. Part. 1, 2, 3
عمر فضفاض

الآنف
WIC CS
- major degree
- severe bl.
GFO
- minor degree
- mild bl.

الآنف
1- NICU
2- bl. bank
3- Op. theat.

في الأغلب الحالة المصحورة:

D.D. ايه اد
maternal fetal
Pl. extra-pl
= U. previa

* العانة مصحورة لادعه؟

Mother → labor

fetus < mature

distressed
Bleeding → severe

V. mole

حالة نادرة

يكون في عل

partial
twins

acute abd.

torsion T-L cysts

احفظ حفظ
Choriocarcin

follow up
by
B-HCG

ectopic

A. mole

طاماً مصحورة تبقى حاجة في اثنين

Waiting

query?!

D.D. ايه اد
th. abortion

serial
U/S
B-HCG

or
laparoscopy

Adhesions
PID

acute

stable

undist.

قاعدية
medical th

= methotrex
= 50 mg/m²

ابداً سريعاً
1- < 3 cm
2- < 3000 HCG

3- no card.
activity

4- vitally
stable

postop.

laparotomy laparoscopy

- what was!
presentation:

acute abd +
collapse

- What was!
1st line of th:
cannula
+ resuscit.

- What was done

ectomy
otomy
ابداً سريعاً -
 كبيرة -
 صغيرة -
 عصافير -
 عصافير -

زاي انتف
History: ↑ enlargem
Inv - U/S: snow
storm
HCG > 100.000

etiology ذي اع
androgenesis

follow up
by
B-HCG

